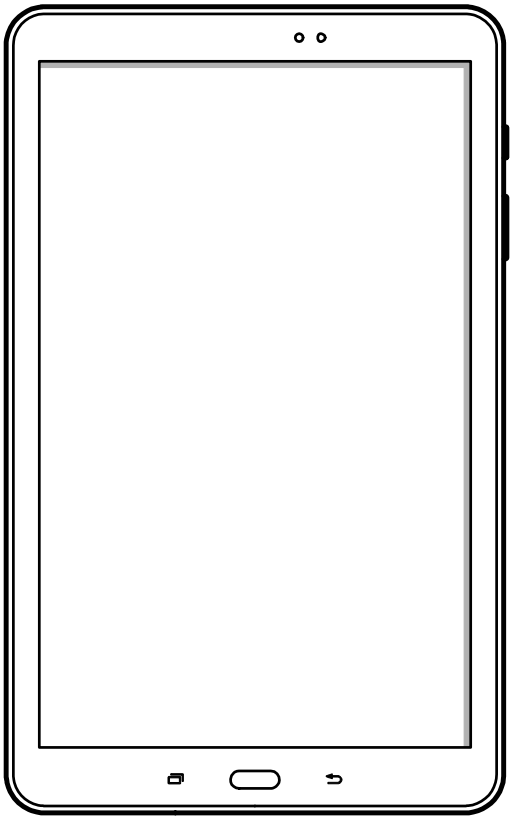
SAMSUNG

Mobile Device

SM-T580

SERVICE Manual

Mobile Device



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1.Safety Precautions

1-1. Repair Precaution

Before attempting any repair or detailed tuning, shield the device from RF noise or static electricity discharges.

Use only demagnetized tools that are specifically designed for small electronic repairs, as most electronic parts are sensitive to electromagnetic forces.

Use only high quality screwdrivers when servicing products. Low quality screwdrivers can easily damage the heads of screws.

Use only conductor wire of the properly gauge and insulation for low resistance, because of the low margin of error of most testing equipment.
We recommend 22-gauge twisted copper wire.

Hand-soldering is not recommended, because printed circuit boards (PCBs) can be easily damaged, even with relatively low heat. Never use a soldering iron with a power rating of more than 100 watts and use only lead-free solder with a melting point below 250°C (482°F).

Prior to disassembling the battery charger for repair, ensure that the AC power is disconnected.
Always use the replacement parts that are registered in the SEC system. Third-party replacement parts may not function properly.

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1-2. ESD(Electrostatically Sensitive Devices) Precaution

Many semiconductors and ESDs in electronic devices are particularly sensitive to static discharge and can be easily damaged by it. We recommend protecting these components with conductive anti-static bags when you store or transport them.

Always use an anti-static strap or wristband and remove electrostatic buildup or dissipate static electricity from your body before repairing ESDs.

Ensure that soldering irons have AC adapter with ground wires and that the ground wires are properly connected.

Use only desoldering tools with plastic tips to prevent static discharge.

Properly shield the work environment from accidental electrostatic discharge before opening packages containing ESDs.

The potential for static electricity discharge may be increased in low humidity environments, such as air-conditioned rooms. Increase the airflow to the working area to decrease the chance of accidental static electricity discharges.

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2. Specification

N/A

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3. Operation Instruction and Installation

Main Function

Item	Description
OS	Android V6.0 (Marshmallow)
RF	2G : 850/900/180/1900 3G : B1,2,5,8 LTE : Band B1/3/5/7/8/20/40
Battery	7,300mAh
Base Band	Exynos 7870 Octa-Core 1.6GHz
Other RF	USB 2.0, BT4.1, GPS, Glonass, WIFI 802.11 a/b/g/n /ac 2.4GHz+5GHz
Camera	8.0MP AF, 2.0MP FF
LCD	10,1” 1920x1200(WUXGA), TFT, LCD
RAM	2G LPDDR3+16G eMMC
Sensor	Accelerometer, RGB Light,Hall Sensor
Accessory	Charger: 5V/2A Data cable: 3.0pi, 0.8m

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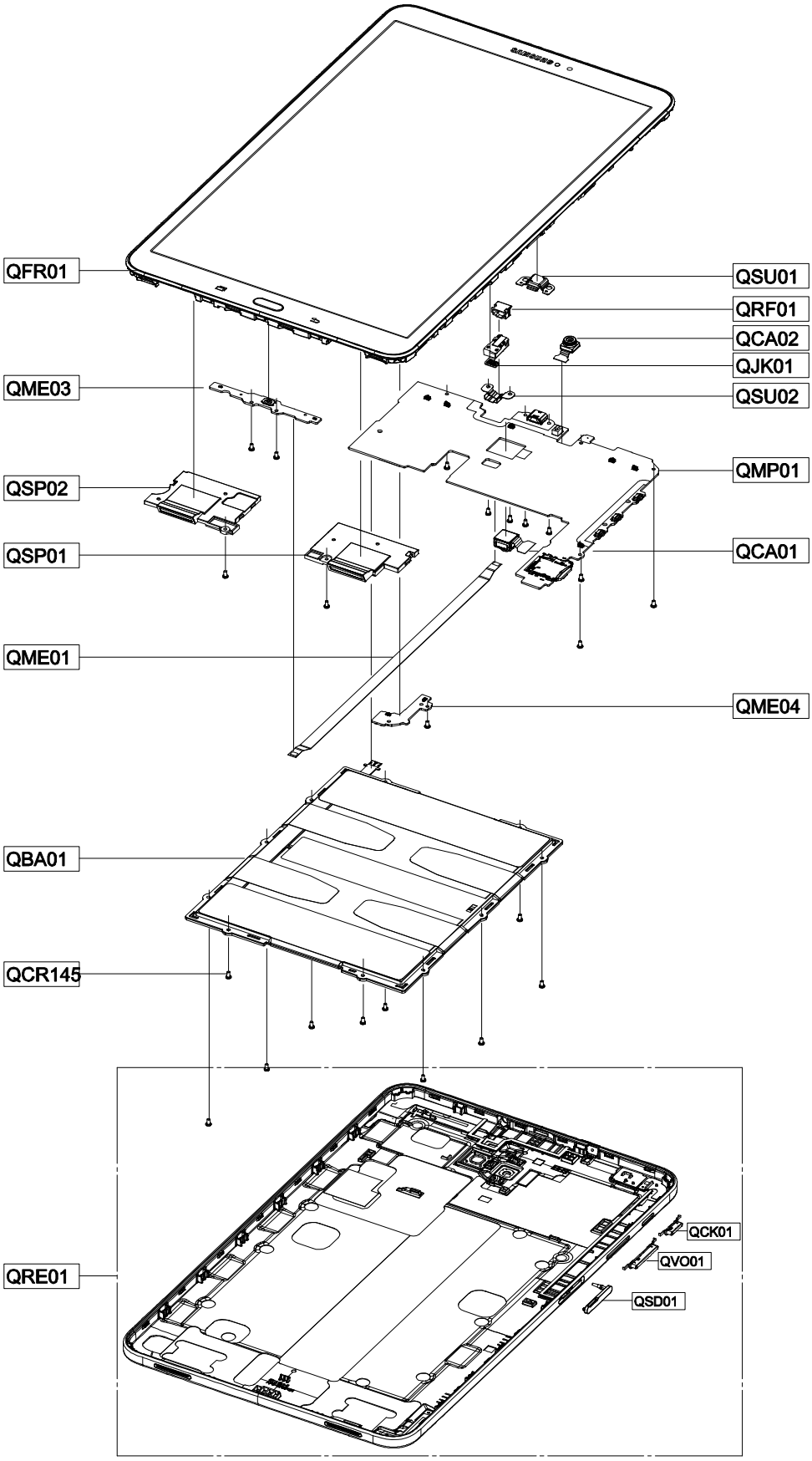
4. Exploded View and Parts List

4-1. Cellular phone Exploded View



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4. Exploded View and Parts List

4-2. Cellular phone Parts list

Design LOC		Description	SEC CODE
QCR145		SCREW-MACHINE L2.5	6001-003193
QME01		FFC-HOME KEY (SM-T585)	GH41-05105A
QBA01		INNER BATTERY PACK-EB-BT585ABE,7300,30	GH43-04627A
QJK01		MODULE-EAR JACK FPCB (SM-T280)	GH59-14606A
QRF01		RUBBER-EARJACK	GH67-03160A
QMP01		A/S ASSY-PBA MAIN(COMM),SM-T580;SVC	GH82-12357A
QME03		A/S ASSY-HOME KEY PBA(IF SUB),SM-T580;	GH82-12358A
QME04		A/S ASSY-SUB PBA(SUB ANT),SM-T580	GH82-12359A
QSP01		ASSY SPEAKER-SPK R(SM-T585)	GH96-09957A
QCA02		ASSY CAMERA-2M 1/5"(SM-T536)	GH96-09959A
QSP02		ASSY SPEAKER-SPK L(SM-T580)	GH96-10007A
QCA01		ASSY CAMERA-8M AF_SM-T585	GH96-10043A
QFR01		SVC LCD ASSY-LCD,(E/BLK);SM-T585,DBT,BL	GH97-19022A
QSU01		ASSY BRACKET-IF SUS	GH98-39618A
QSU02		ASSY BRACKET-EARJACK SUS	GH98-39860A
QRE01		ASSY CASE-REAR SVC(EUROPE)	GH98-40212A
	QSD01	COVER-SD	GH63-12808A
	QCK01	KEY-POWER	GH64-05757A
	QVO01	KEY-VOLUME	GH64-05758A
		SVC JIG-TEST_100MM	GH81-09146A
		SVC JIG-CABLE-C-TC11-110	GH81-10631A

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5. MAIN Electrical Parts List

Parts Code	Design Loc	Description
0403-002001	ZD4006	DIODE-ZENER
0404-001250	D4000	DIODE-SCHOTTKY
0404-001250	D4001	DIODE-SCHOTTKY
0404-001669	D6000	DIODE-SCHOTTKY
0406-001623	ZD4014	DIODE-TVS
0406-001645	ZD5001	DIODE-TVS
0406-001645	ZD5002	DIODE-TVS
0406-001682	D5000	DIODE-TVS
0406-001682	D5001	DIODE-TVS
0406-001682	D5002	DIODE-TVS
0406-001682	ZD5012	DIODE-TVS
0406-001690	ZD4010	DIODE-TVS
0406-001690	ZD4011	DIODE-TVS
0406-001690	ZD4012	DIODE-TVS
0406-001690	ZD4013	DIODE-TVS
0406-001690	ZD5007	DIODE-TVS
0406-001690	ZD5008	DIODE-TVS
0406-001690	ZD5009	DIODE-TVS
0406-001690	ZD5010	DIODE-TVS
0406-001690	ZD5011	DIODE-TVS
0406-001690	ZD7000	DIODE-TVS
0406-001690	ZD7001	DIODE-TVS
0406-001733	ZD4000	DIODE-TVS
0407-001055	ZD4007	DIODE-ARRAY
0505-002088	Q6000	FET-SILICON
0505-002341	TR4000	FET-SILICON
0505-003234	Q4000	FET-SILICON
0601-003526	LED4000	LED
1001-001968	U5004	IC-ANALOG MULTIPLEX
1009-001066	U7005	IC-HALL EFFECT S/W
1105-002710	UCP300UP	IC-DDR3 SDRAM
1107-002454	UME3000	IC-EMMC
1201-003790	U2004	IC-GPS AMP
1203-004819	U7006	IC-POSI.FIXED REG.
1203-004819	U7016	IC-POSI.FIXED REG.
1203-006767	U6003	IC-MULTI REG.
1203-008518	U6000	IC-SWITCH REG.
1203-008644	U6002	IC-BACKLIGHT DRIVER
1203-008646	U4006	IC-POWER SUPERVISOR
1203-008766	U2005	IC-DC/DC CONVERTER
1203-008767	U4007	IC-POWER SUPERVISOR
1205-005097	U4009	IC-SWITCH

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5. MAIN Electrical Parts List

1205-005310	U2001	IC-GPS RECEIVER
1205-005367	U5005	IC-CODEC
1205-005564	U2010	IC-WIFI
1205-005565	UCP300	IC-MODEM
1205-005604	U6001	IC-TOUCH
1209-002275	U7001	IC-ACCELEROMETER SENSOR
1209-002331	U2006	IC-TOUCH SENSOR
1209-002351	U7008	IC-OPTICS SENSOR
1404-001471	TH4000	THERMISTOR-NTC
1404-001724	TH3000	THERMISTOR-NTC
1405-001375	VR2000	VARISTOR
1405-001375	VR5001	VARISTOR
1405-001404	VR7000	VARISTOR
1405-001404	VR7002	VARISTOR
2007-000138	R4024	R-CHIP
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2203-007271	C4086	C-CER,CHIP
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2203-007279	C4024	C-CER,CHIP
2203-007279	C4025	C-CER,CHIP
2203-007279	C4026	C-CER,CHIP
2203-007279	C4027	C-CER,CHIP
2203-007279	C4048	C-CER,CHIP
2203-007279	C4082	C-CER,CHIP
2203-007317	C3000	C-CER,CHIP
2203-007317	C3003	C-CER,CHIP
2203-007317	C3020	C-CER,CHIP
2203-007317	C3024	C-CER,CHIP
2203-007317	C3027	C-CER,CHIP
2203-007317	C3037	C-CER,CHIP
2203-007317	C3046	C-CER,CHIP
2203-007317	C3067	C-CER,CHIP
2203-007317	C3068	C-CER,CHIP
2203-007317	C4001	C-CER,CHIP
2203-007317	C4004	C-CER,CHIP
2203-007317	C4005	C-CER,CHIP
2203-007317	C4006	C-CER,CHIP

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2203-007317	C4035	C-CER,CHIP
2203-007317	C5024	C-CER,CHIP
2203-007317	C5025	C-CER,CHIP
2203-007317	C5027	C-CER,CHIP
2203-007317	C5028	C-CER,CHIP
2203-007317	C5034	C-CER,CHIP
2203-007317	C5036	C-CER,CHIP
2203-007317	C5037	C-CER,CHIP
2203-007317	C5039	C-CER,CHIP
2203-007317	C7025	C-CER,CHIP
2203-007385	C3040	C-CER,CHIP
2203-007391	C2021	C-CER,CHIP
2203-007391	C2022	C-CER,CHIP
2203-007392	C4066	C-CER,CHIP
2203-007392	C4081	C-CER,CHIP
2203-007393	C2024	C-CER,CHIP
2203-007393	C4044	C-CER,CHIP
2203-007449	C2030	C-CER,CHIP
2203-007449	C2031	C-CER,CHIP
2203-007449	C2033	C-CER,CHIP
2203-007449	C2040	C-CER,CHIP
2203-007449	C2042	C-CER,CHIP
2203-007449	C2044	C-CER,CHIP
2203-007449	C2050	C-CER,CHIP
2203-007449	C2051	C-CER,CHIP
2203-007449	C2052	C-CER,CHIP
2203-007449	C3004	C-CER,CHIP
2203-007449	C3006	C-CER,CHIP
2203-007449	C3007	C-CER,CHIP
2203-007449	C3008	C-CER,CHIP
2203-007449	C3009	C-CER,CHIP
2203-007449	C3010	C-CER,CHIP
2203-007449	C3011	C-CER,CHIP
2203-007449	C3012	C-CER,CHIP
2203-007449	C3013	C-CER,CHIP
2203-007449	C3014	C-CER,CHIP
2203-007449	C3015	C-CER,CHIP
2203-007449	C3018	C-CER,CHIP
2203-007449	C3019	C-CER,CHIP
2203-007449	C3021	C-CER,CHIP
2203-007449	C3023	C-CER,CHIP
2203-007449	C3025	C-CER,CHIP
2203-007449	C3026	C-CER,CHIP

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2203-007449	C3029	C-CER,CHIP
2203-007449	C3030	C-CER,CHIP
2203-007449	C3031	C-CER,CHIP
2203-007449	C3033	C-CER,CHIP
2203-007449	C3035	C-CER,CHIP
2203-007449	C3036	C-CER,CHIP
2203-007449	C3038	C-CER,CHIP
2203-007449	C3041	C-CER,CHIP
2203-007449	C3043	C-CER,CHIP
2203-007449	C3044	C-CER,CHIP
2203-007449	C3045	C-CER,CHIP
2203-007449	C3048	C-CER,CHIP
2203-007449	C3049	C-CER,CHIP
2203-007449	C3051	C-CER,CHIP
2203-007449	C3052	C-CER,CHIP
2203-007449	C3053	C-CER,CHIP
2203-007449	C3054	C-CER,CHIP
2203-007449	C3055	C-CER,CHIP
2203-007449	C3056	C-CER,CHIP
2203-007449	C3057	C-CER,CHIP
2203-007449	C3058	C-CER,CHIP
2203-007449	C3059	C-CER,CHIP
2203-007449	C3060	C-CER,CHIP
2203-007449	C3061	C-CER,CHIP
2203-007449	C3062	C-CER,CHIP
2203-007449	C3063	C-CER,CHIP
2203-007449	C3064	C-CER,CHIP
2203-007449	C3065	C-CER,CHIP
2203-007449	C3066	C-CER,CHIP
2203-007449	C3069	C-CER,CHIP
2203-007449	C3070	C-CER,CHIP
2203-007449	C3073	C-CER,CHIP
2203-007449	C3074	C-CER,CHIP
2203-007449	C3076	C-CER,CHIP
2203-007449	C3078	C-CER,CHIP
2203-007449	C3080	C-CER,CHIP
2203-007449	C4002	C-CER,CHIP
2203-007449	C4003	C-CER,CHIP
2203-007449	C4007	C-CER,CHIP
2203-007449	C4009	C-CER,CHIP
2203-007449	C4010	C-CER,CHIP
2203-007449	C4014	C-CER,CHIP
2203-007449	C4015	C-CER,CHIP

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2203-007449	C4016	C-CER,CHIP
2203-007449	C4017	C-CER,CHIP
2203-007449	C4030	C-CER,CHIP
2203-007449	C4031	C-CER,CHIP
2203-007449	C4032	C-CER,CHIP
2203-007449	C4039	C-CER,CHIP
2203-007449	C4040	C-CER,CHIP
2203-007449	C4041	C-CER,CHIP
2203-007449	C4042	C-CER,CHIP
2203-007449	C4056	C-CER,CHIP
2203-007449	C4059	C-CER,CHIP
2203-007449	C4063	C-CER,CHIP
2203-007449	C4088	C-CER,CHIP
2203-007449	C4089	C-CER,CHIP
2203-007449	C4090	C-CER,CHIP
2203-007449	C4092	C-CER,CHIP
2203-007449	C5010	C-CER,CHIP
2203-007449	C5022	C-CER,CHIP
2203-007449	C5023	C-CER,CHIP
2203-007474	C3042	C-CER,CHIP
2203-007474	C7007	C-CER,CHIP
2203-007781	C4065	C-CER,CHIP
2203-007790	C4100	C-CER,CHIP
2203-007790	C6012	C-CER,CHIP
2203-007790	C6015	C-CER,CHIP
2203-007795	C2023	C-CER,CHIP
2203-007796	C4075	C-CER,CHIP
2203-008394	C2080	C-CER,CHIP
2203-008654	C4049	C-CER,CHIP
2203-008790	C2060	C-CER,CHIP
2203-008860	C4022	C-CER,CHIP
2203-008860	C4050	C-CER,CHIP
2203-008860	C4062	C-CER,CHIP
2203-008860	C4064	C-CER,CHIP
2203-009328	C4061	C-CER,CHIP
2203-009551	C4053	C-CER,CHIP
2203-009733	C4021	C-CER,CHIP
2203-009733	C4060	C-CER,CHIP
2203-009733	C4085	C-CER,CHIP
2203-009733	C6000	C-CER,CHIP
2203-009733	C6007	C-CER,CHIP
2203-009733	C6008	C-CER,CHIP
2203-009733	C6009	C-CER,CHIP

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2203-009733	C6011	C-CER,CHIP
2703-002309	L5012	INDUCTOR-SMD
2703-002313	L2011	INDUCTOR-SMD
2703-002367	C2018	INDUCTOR-SMD
2703-002367	L2000	INDUCTOR-SMD
2703-002951	L2005	INDUCTOR-SMD
2703-002951	L2006	INDUCTOR-SMD
2703-002959	L3002	INDUCTOR-SMD
2703-002961	L2004	INDUCTOR-SMD
2703-002961	L2016	INDUCTOR-SMD
2703-004013	C2017	INDUCTOR-SMD
2703-004036	L4007	INDUCTOR-SMD
2703-004299	C2067	INDUCTOR-SMD
2703-004332	L6000	INDUCTOR-SMD
2703-004366	L2015	INDUCTOR-SMD
2703-004371	L2009	INDUCTOR-SMD
2703-004530	L6001	INDUCTOR-SMD
2703-005038	L2012	INDUCTOR-SMD
2703-005067	L2010	INDUCTOR-SMD
2703-005067	L4002	INDUCTOR-SMD
2703-005067	L4003	INDUCTOR-SMD
2703-005067	L4004	INDUCTOR-SMD
2703-005067	L4005	INDUCTOR-SMD
2703-005067	L4006	INDUCTOR-SMD
2703-005340	L4001	INDUCTOR-SMD
2801-005154	OSC2000	CRYSTAL-SMD
2801-005254	OSC4000	CRYSTAL-SMD
2805-001113	OSC2002	OSCILLATOR-TCXO
2805-001113	TCX4000	OSCILLATOR-TCXO
2904-002168	F2003	FILTER-SAW
2904-002169	F2002	FILTER-SAW
2904-002314	F2001	FILTER-SAW
3003-001233	AU5000	MIC MEMS
3301-001534	L7005	BEAD-SMD
3301-001876	L7007	BEAD-SMD
3301-001885	L5001	BEAD-SMD
3301-001885	L5003	BEAD-SMD
3301-001885	L5010	BEAD-SMD
3301-001885	L5013	BEAD-SMD
3301-001885	L5014	BEAD-SMD
3301-001885	L5016	BEAD-SMD
3301-002037	L6002	BEAD-SMD
3301-002078	L7006	BEAD-SMD

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5. MAIN Electrical Parts List

3301-002122	L5002	BEAD-SMD
3301-002122	L5004	BEAD-SMD
3301-002122	L5006	BEAD-SMD
3301-002122	L5007	BEAD-SMD
3301-002122	L5008	BEAD-SMD
3301-002122	L5009	BEAD-SMD
3301-002238	L2003	BEAD-SMD
3301-002254	L4000	BEAD-SMD
3301-002312	L3001	BEAD-SMD
3404-001540	TAC4000	SWITCH-TACT
3404-001540	TAC4001	SWITCH-TACT
3404-001540	TAC4002	SWITCH-TACT
3404-001542	SW7000	SWITCH-TACT
3708-002162	HEA7000	CONNECTOR-FPC/FFC/PIC
3708-003132	HEA5000	CONNECTOR-FPC/FFC/PIC
3708-003132	HEA7001	CONNECTOR-FPC/FFC/PIC
3708-003167	SCL6000	CONNECTOR-FPC/FFC/PIC
3708-003187	HEA6000	CONNECTOR-FPC/FFC/PIC
3708-003254	HDC7000	CONNECTOR-FPC/FFC/PIC
3708-003263	SLC4000	CONNECTOR-FPC/FFC/PIC
3709-001811	SD4000	CONNECTOR-CARD EDGE
3711-008347	HEA5001	HEADER-BOARD TO BOARD
3712-001604	ANT2000	CONNECTOR-TERMINAL
3712-001604	ANT2001	CONNECTOR-TERMINAL
3712-001634	CON2001	CONNECTOR-TERMINAL
3712-001634	CON2002	CONNECTOR-TERMINAL
3712-001634	CON2003	CONNECTOR-TERMINAL
3712-001634	CON2004	CONNECTOR-TERMINAL
3712-001634	CON2005	CONNECTOR-TERMINAL
3712-001694	CON7001	CONNECTOR-TERMINAL
3712-001694	CON7002	CONNECTOR-TERMINAL
3712-001694	CON7004	CONNECTOR-TERMINAL
3712-001694	CON7005	CONNECTOR-TERMINAL
3722-003700	IFC4000	JACK-MICRO USB
4709-002284	F2000	FREQ-DISTRIBUTER
GH62-00040A	CN7002	PAD GAP-SMD GASKET (SM-G925F)
GH62-00044A	CN7000	PAD GAP-SMD GASKET(SM-T555)
GH63-12801A	SC2003	SHIELD-COVER A
GH63-12802A	SC2000	SHIELD-FRAME B
GH61-11529A	SUS2000	SHIELD-SD SUS
GH98-39624A	SC2002	ASSY COVER-SHIELD CAN D

Please consult the GSPN website (Samsung Portal) for the most recent version of the product's part list.

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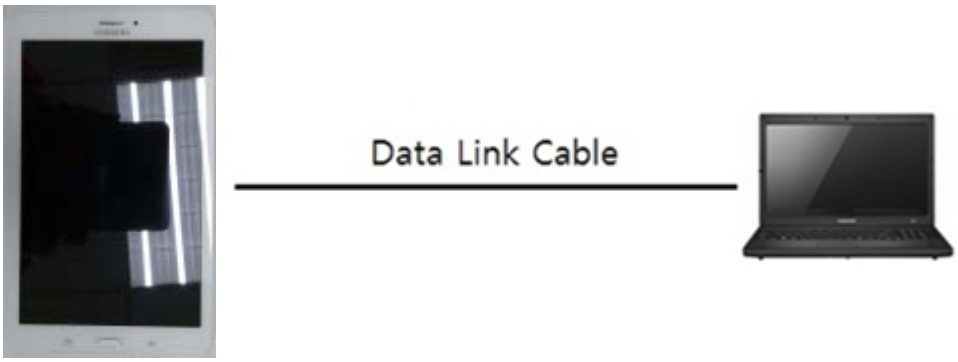
6. Level 1 Repair

6-1. S/W installation

6-1-1. Required items in order to install S/W

Installation program: Downloader Program (**Odin3 v3.10.7.exe**)
SM-T580 set
Data Cable
Mobile device specific S/W: Binary files

※ Settings



Data Cable : GH39-01710D

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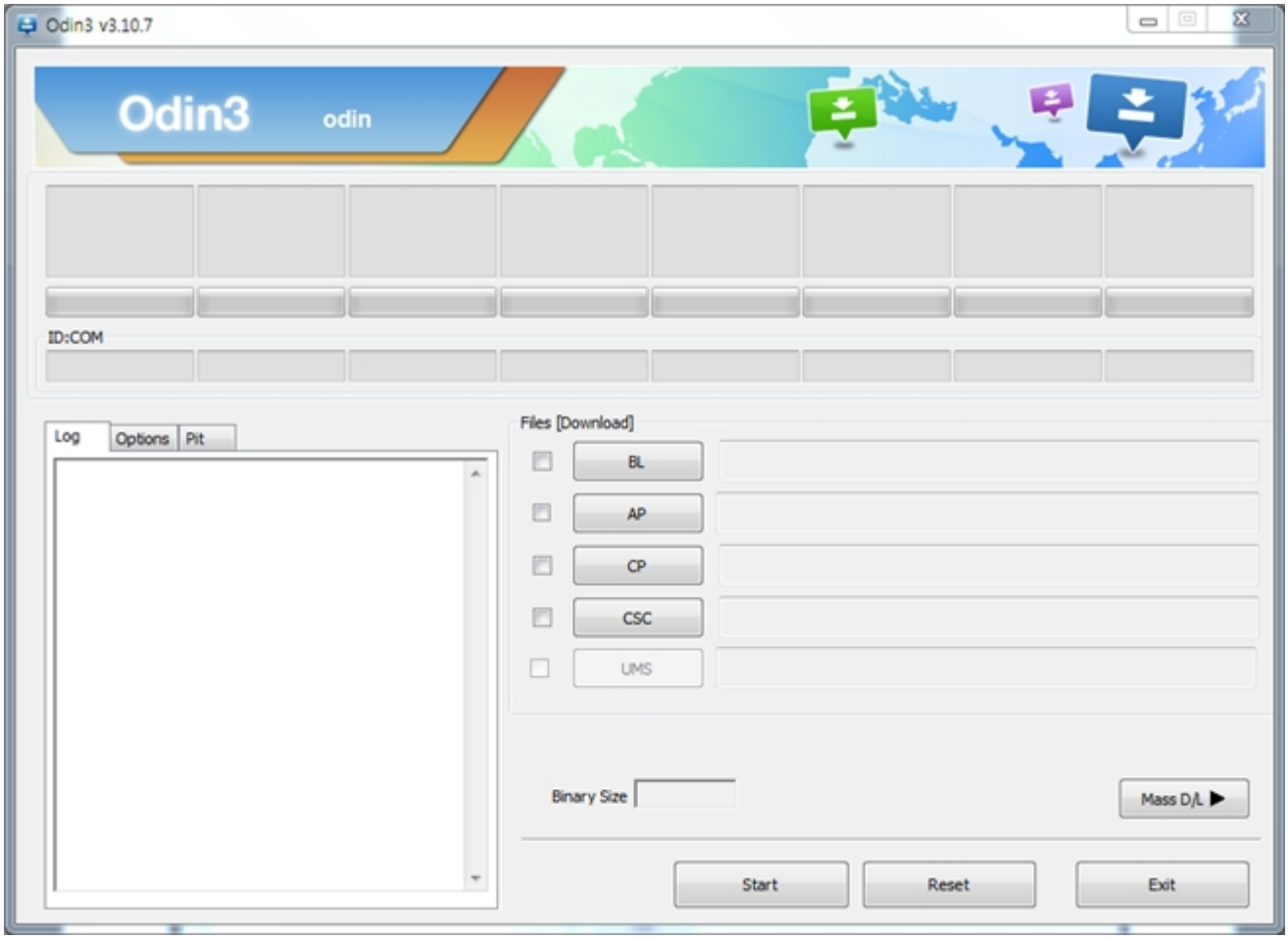
6-1-2. S/W Installation Program (Downloader program)

Open up the S/W Installation Program by executing the **"Odin3 v3.10.7.exe"**



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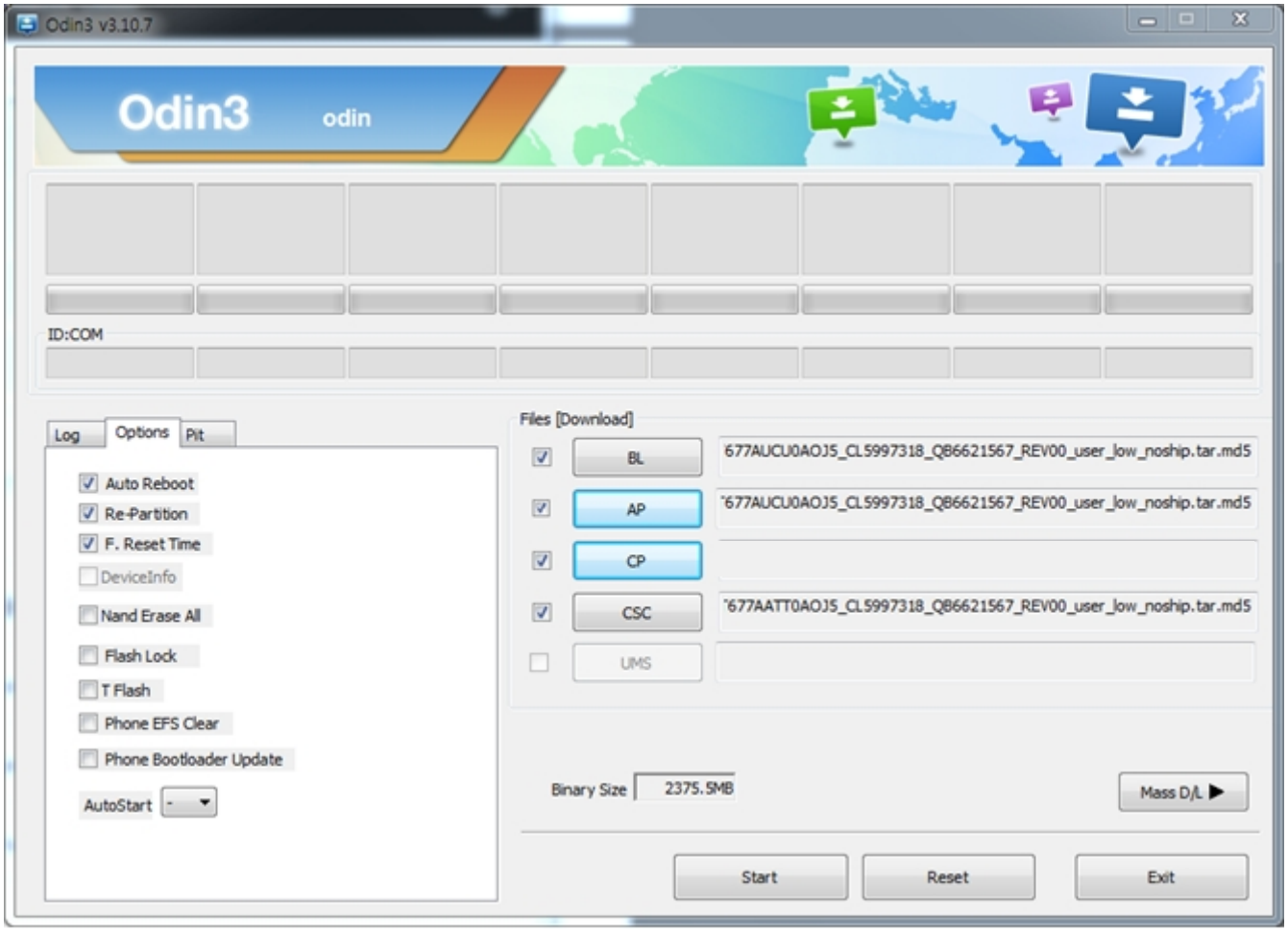
6. Level 1 Repair

1. Enable the check mark by click on the following options,

- Check Auto Reboot, Re-Partition, and F. Reset Time
- Check PIT
- Check BL, AP, and CSC Files

  * Note : "Odin v3.10 or above" checks MD5 checksum just after file selection.



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2. Enter into Download Mode
- Enter into Download Mode by pressing Home button, Volume Down button and Power On/Off Button simultaneously followed by pressing Volume up button as a direction of the phone.

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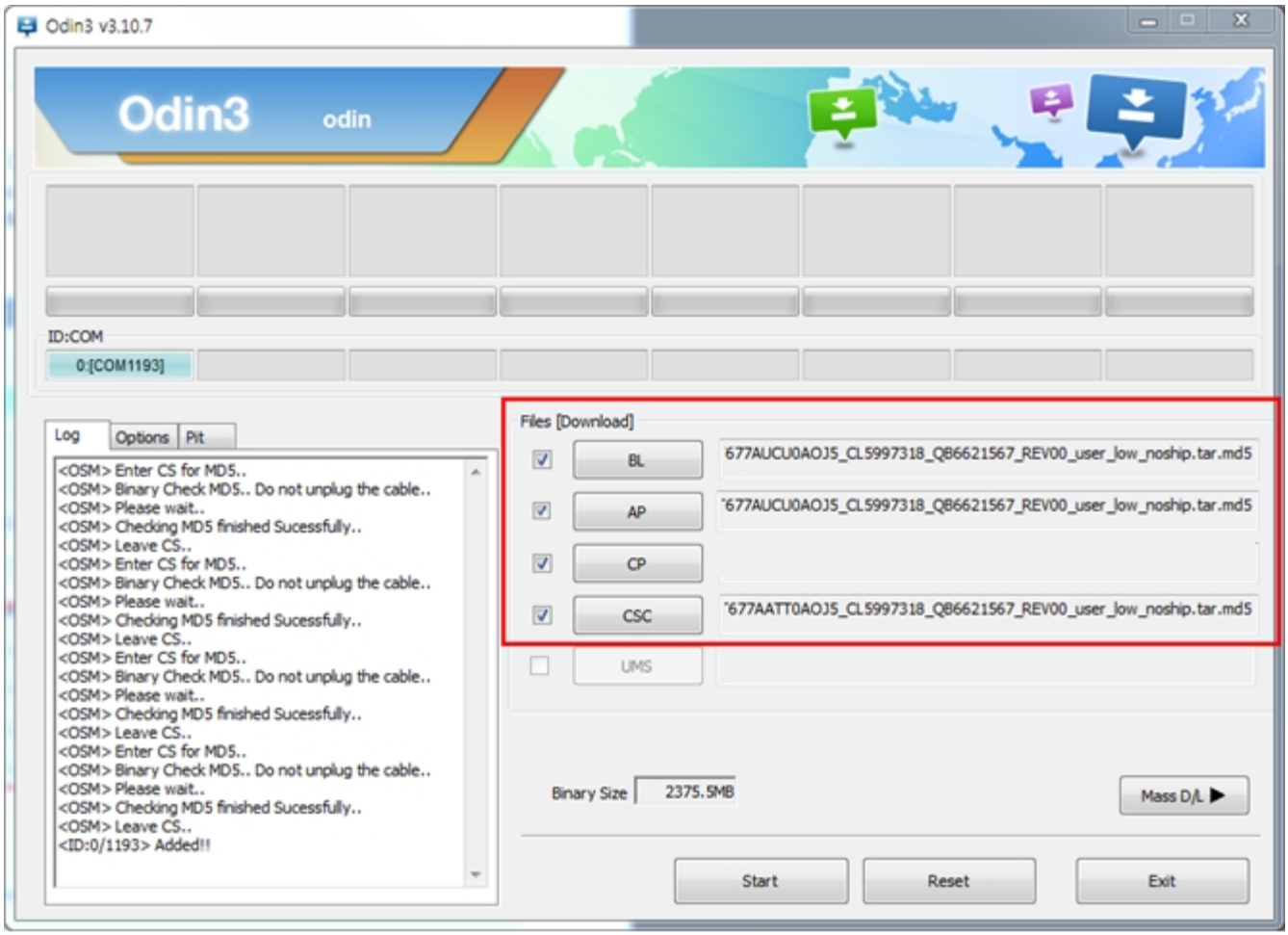
3. Connect the device to PC via Data Cable.
Make sure that the one of communication ports [ID:COM] box is highlighted in sky blue. The device is now connected with the PC and ready to download the binary files in it.



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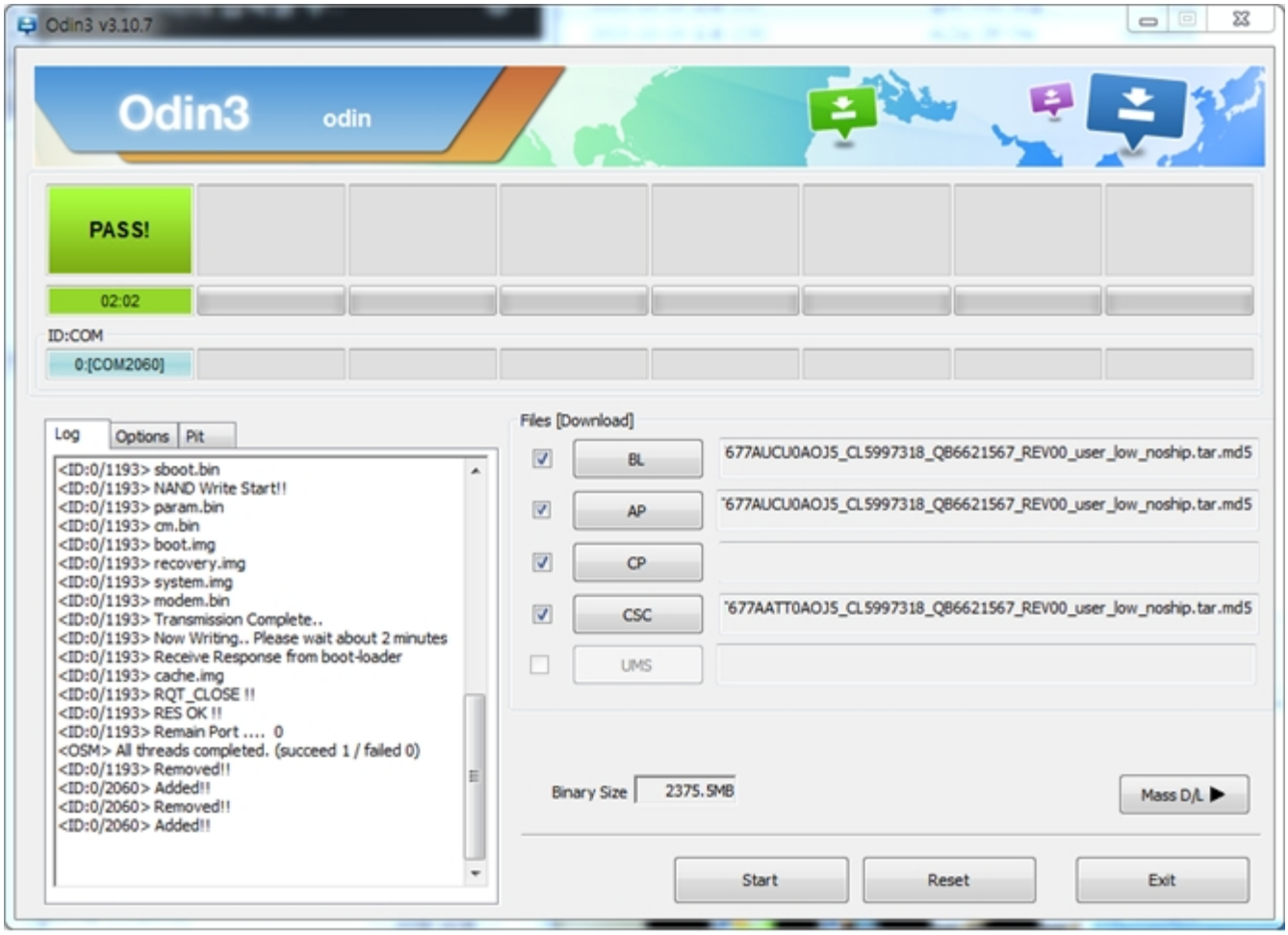
4. Start downloading the binary files into the device by clicking Start button on the screen. The green colored "PASS!" sign will appear on the upper-left box if the binary files have been successfully downloaded into the device.



5. Disconnect the device from the Data cable.

6. Once the device boots up, you can check the version of the binary file or name by pressing the following code in sequence;
***#1234#**

You can perform Factory Reset by Settings → Accounts → Backup and reset

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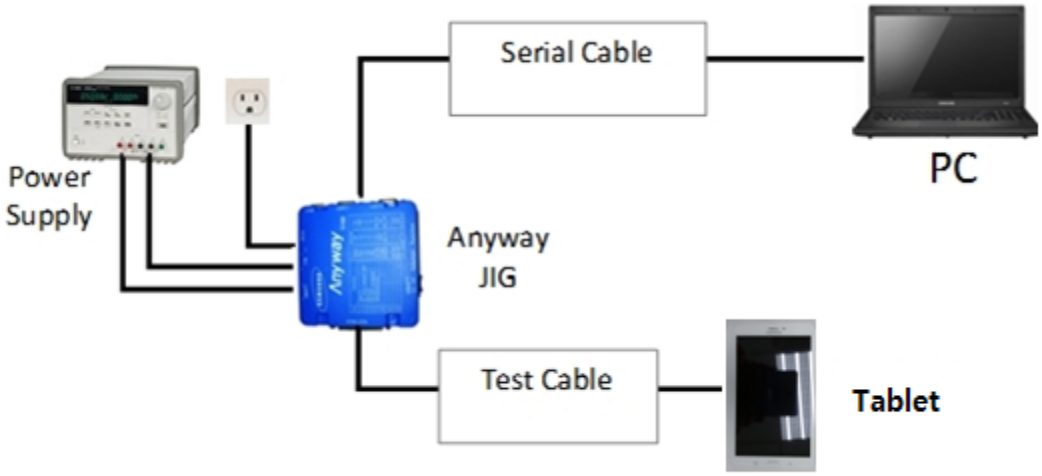
6-2 IMEI writing

6-2-1 Preparation
- New IMEI writing Program has been released.
- Supported Model : Models which CAB files are uploaded on HHPsvc INI File category, instead of ini file.
- Refer to below IMEI writing procedure.

- H/W



- S/W

① Library Install	To use Daseul, library files should be installed. Refer to SVC Bulletin "(11-82) Daseul (New IMEI writing Program) Library Install guide_rev1.0"
②Launcher	DASEUL_SVC_Launcher_v3_0_25 or higher -Uploaded on HHPsvc Notice
③ Runtime File	1. DASEUL_Runtime_Ver_3.1.139.0.CAB or higher -Uploaded on HHPsvc Notice 2. Make 'ModelName' folder at the same position with launcher & Runtime file.
④Model File	Copy Model File under the 'Model Name' folder

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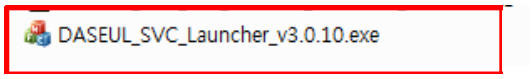
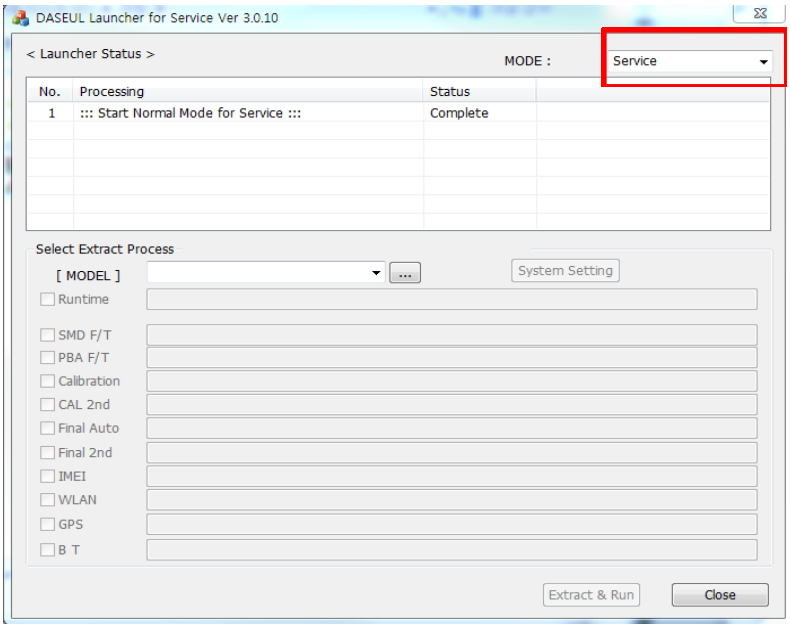
6-2-2 IMEI writing Process

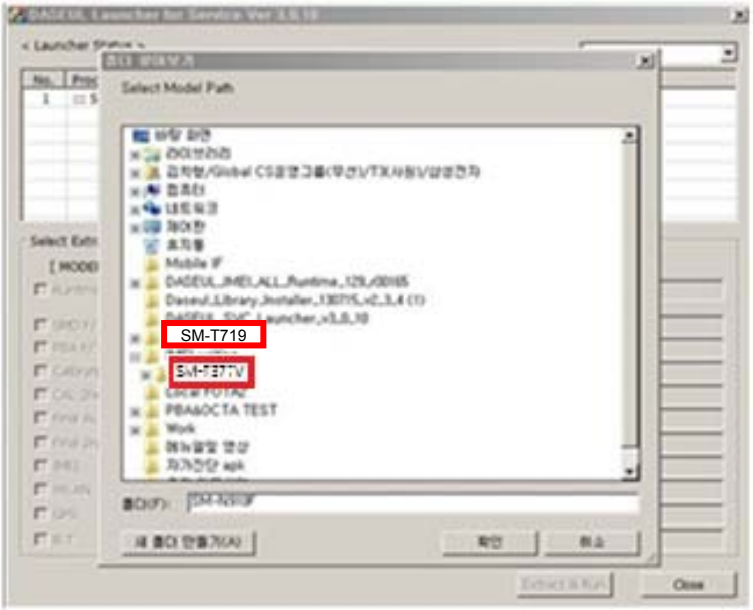
1. Run DASEUL_SVC_Launcher_v3.0.10.exe



2. Select Service Mode



3. Click and Select folder where the Launcher exists



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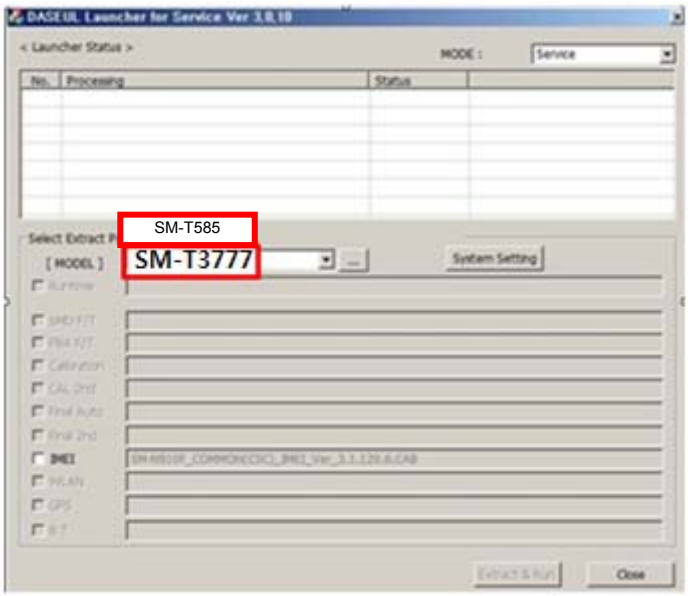
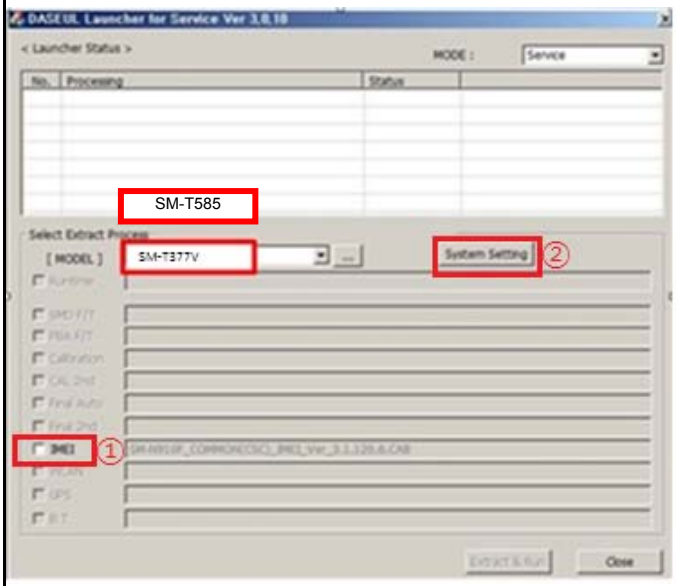
4. Select Model



5. Check IMEI and click System Setting

※Once you setup the setting, you don t have to
do it again, unless there is change. From second run of the IMEI program, check IMEI and click Extract & Run.



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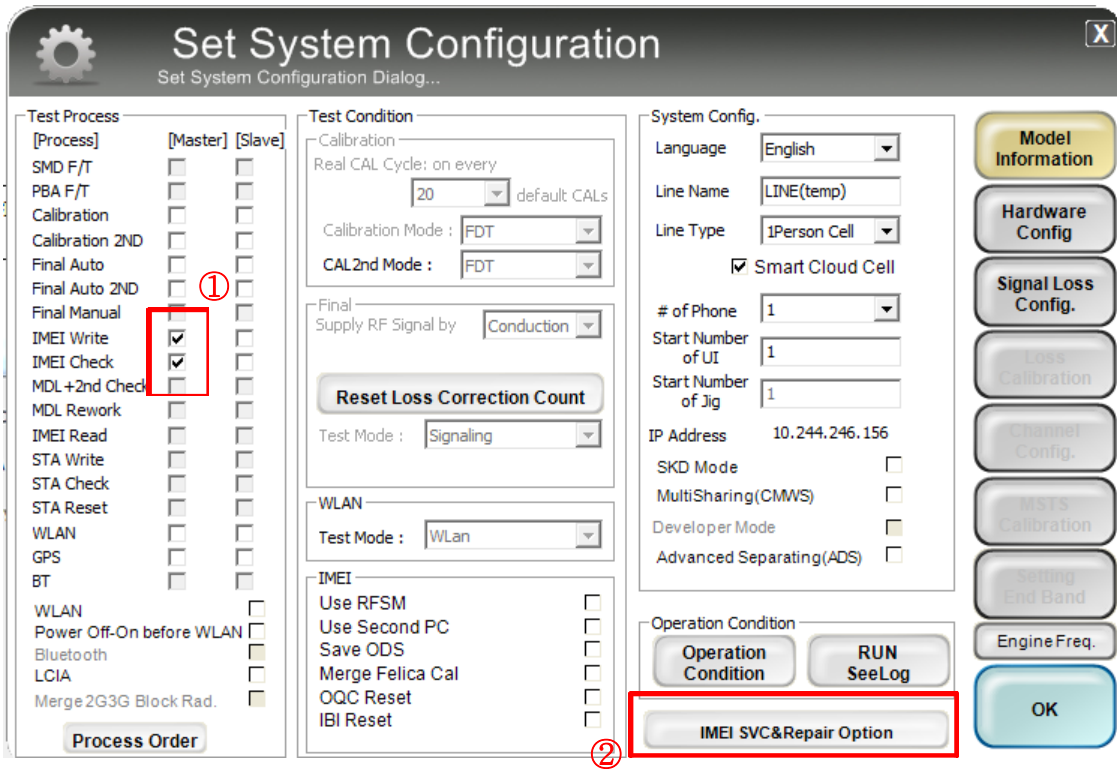
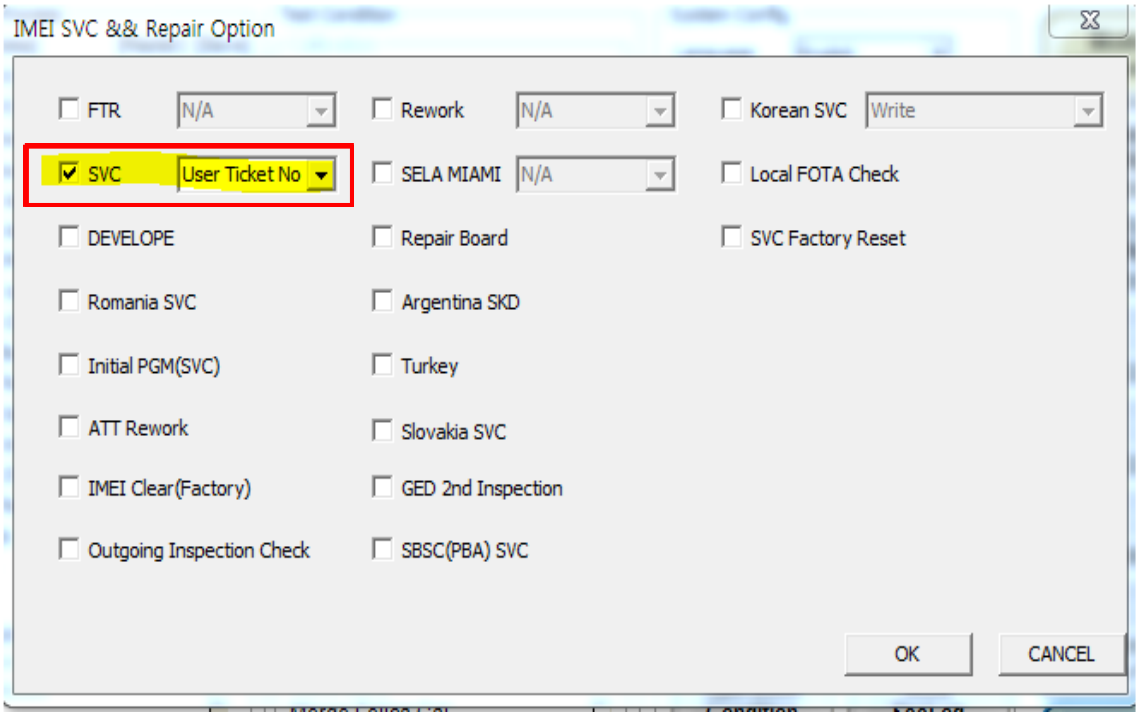
6. Level 1 Repair

6. Check IMEI Write / IMEI Check and click IMEI SVC & Repair Option.



7. Check SVC , User Ticket No and click OK



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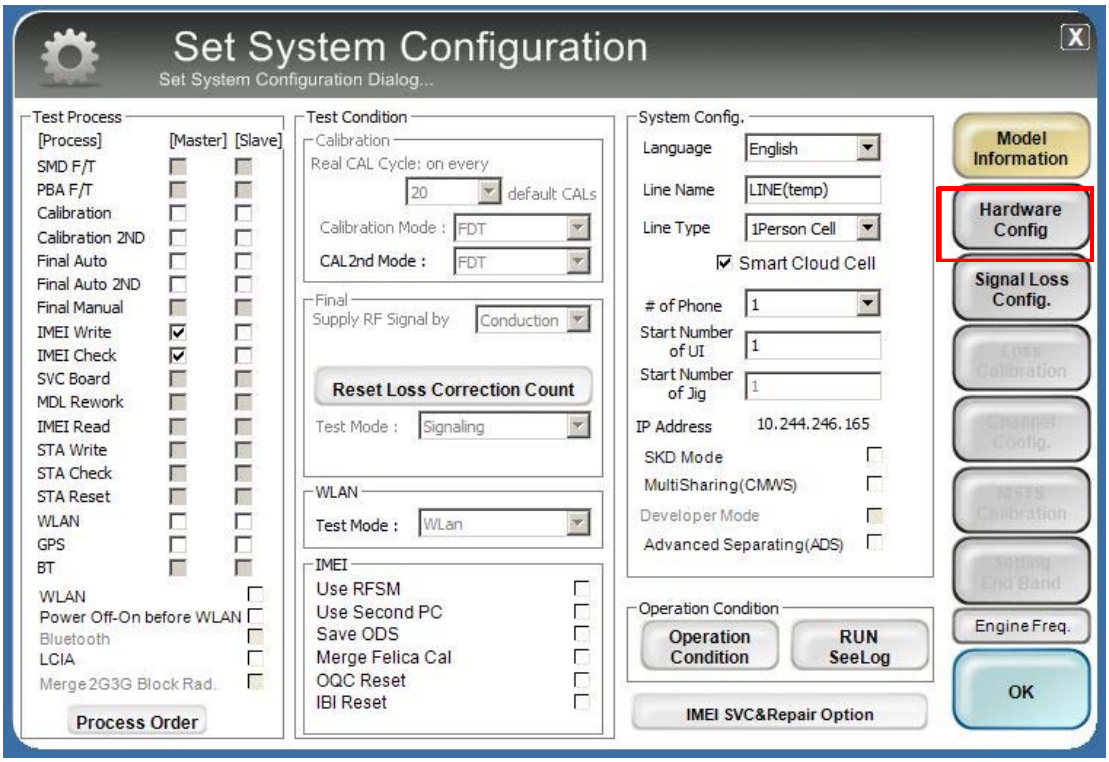
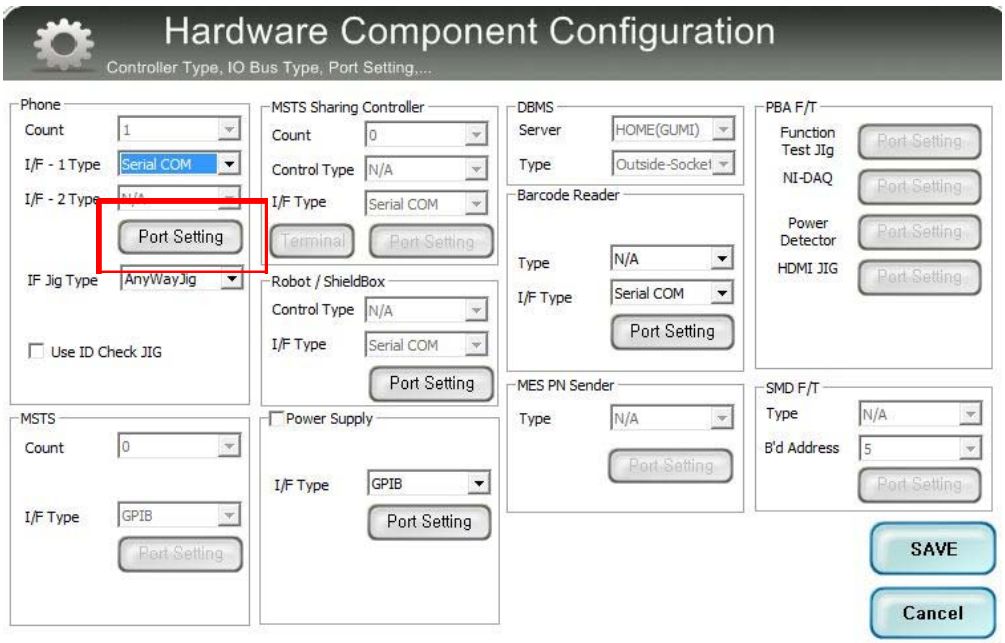
8. Click Hardware Config



9. Click Port Setting



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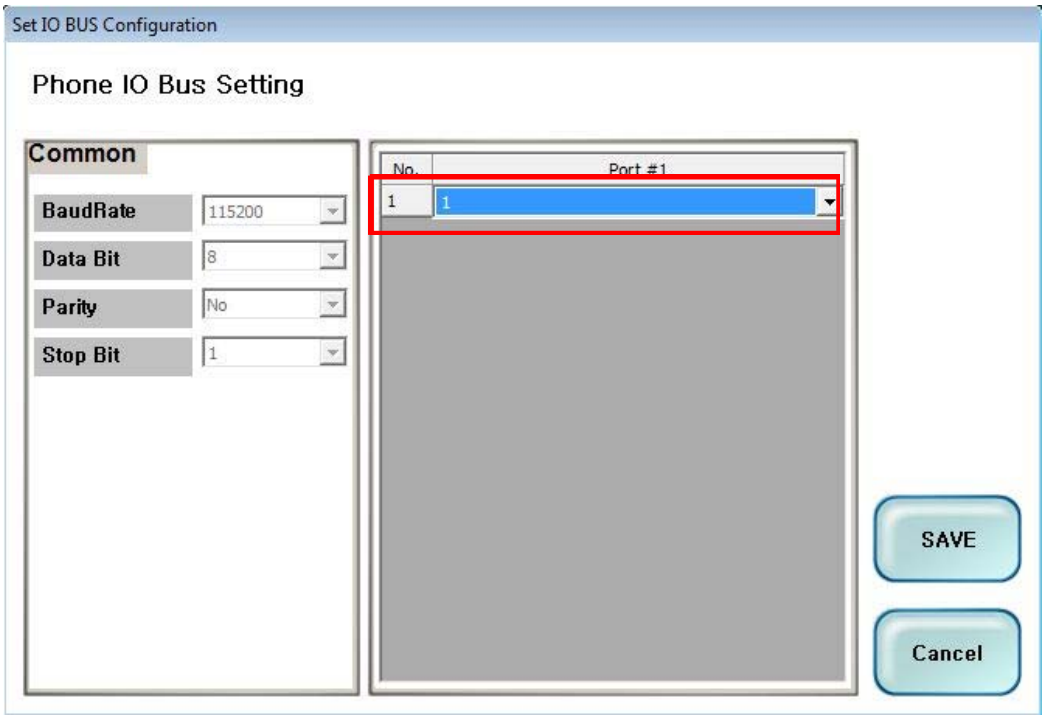
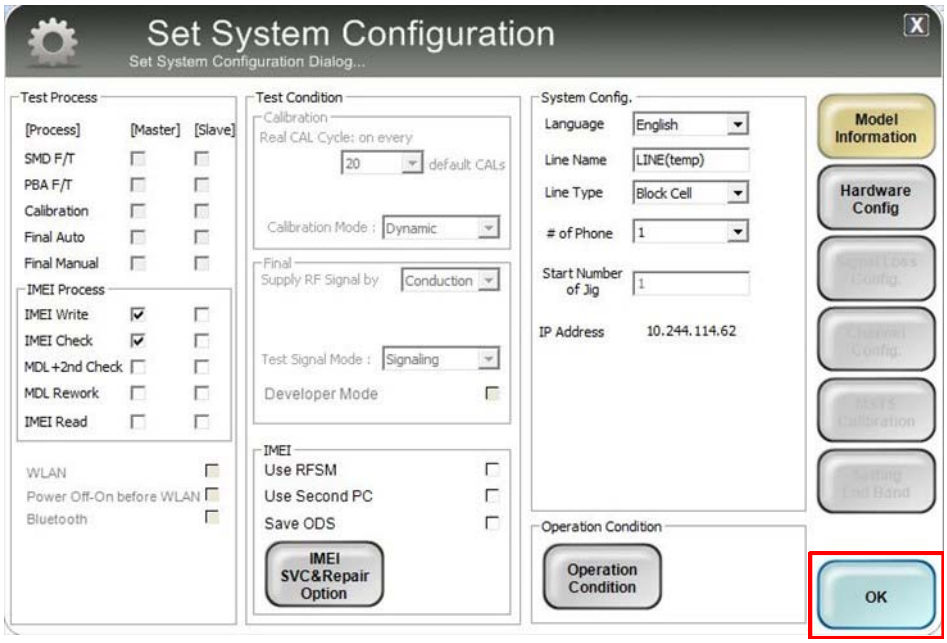
10. Select Port Number and SAVE



11.Click OK to proceed



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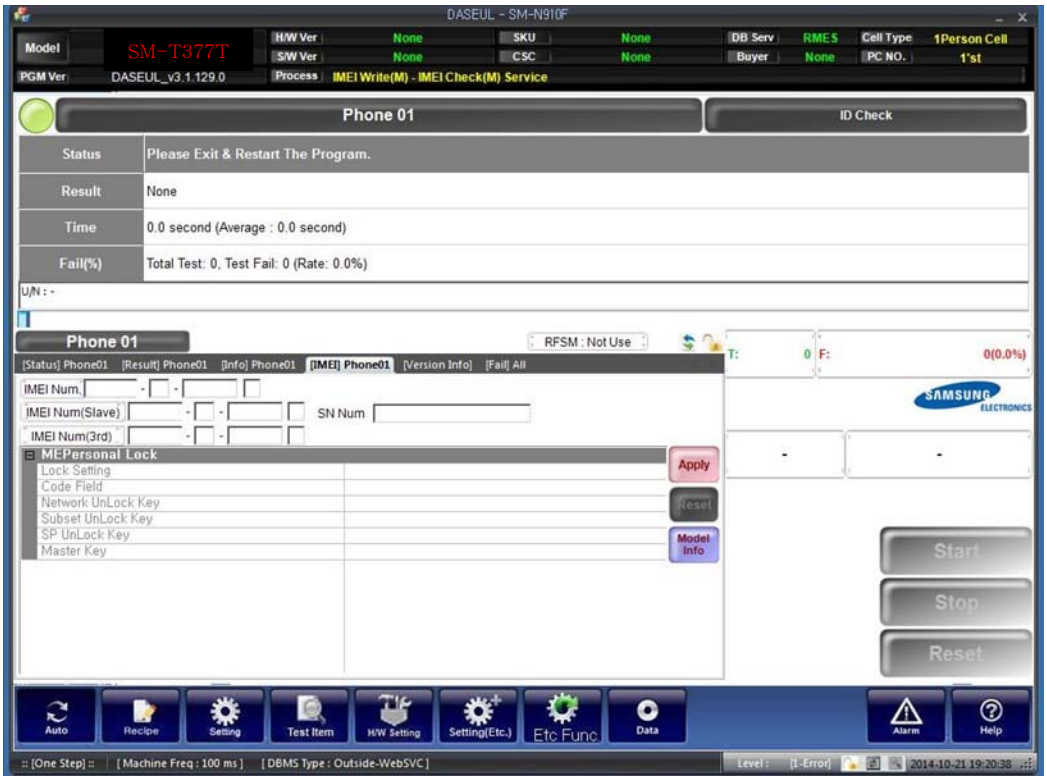
12. Click Model Info and OK when pop-up shows



13. Click OK

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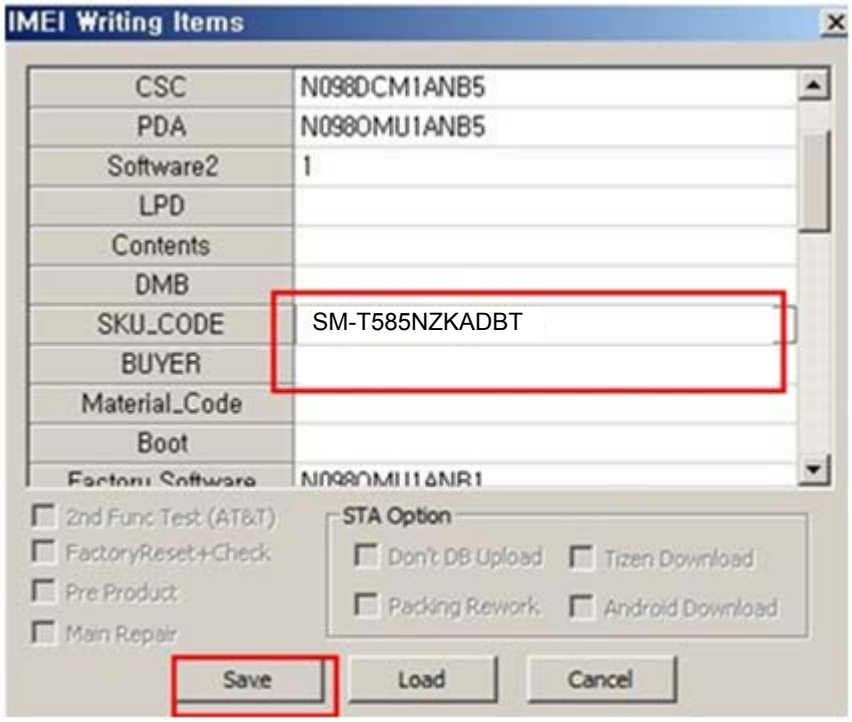
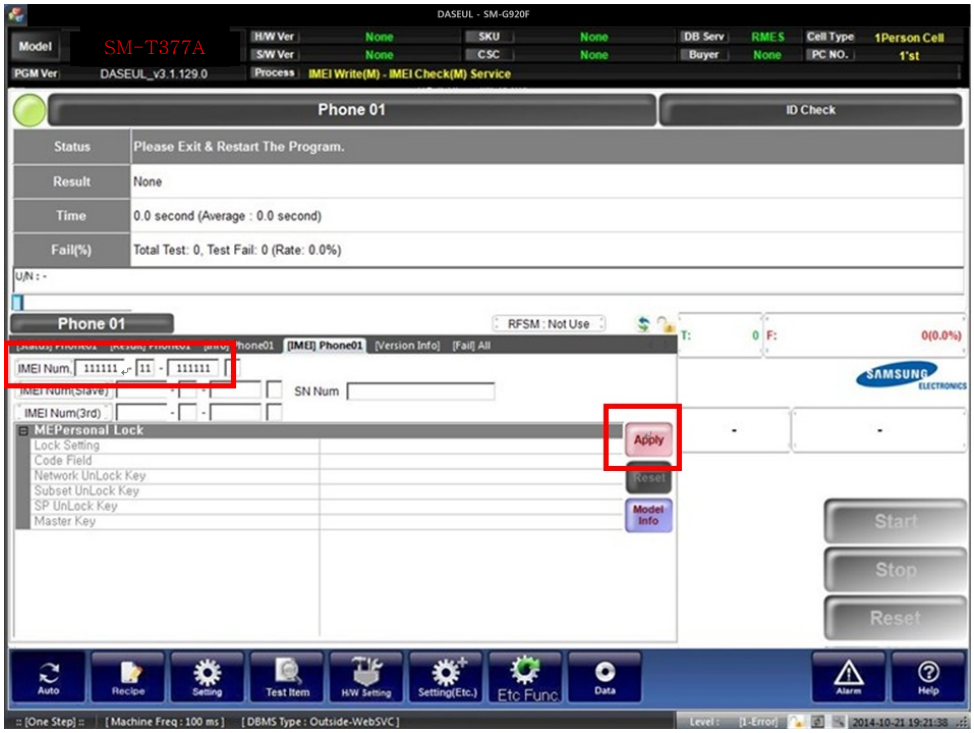
6. Level 1 Repair

14. Input SKU_CODE and BUYER, then click Save button.

※ Refer to HHPsvc→IMEI Review to check SKU Code and buyer



15. Input IMEI Number and click Apply



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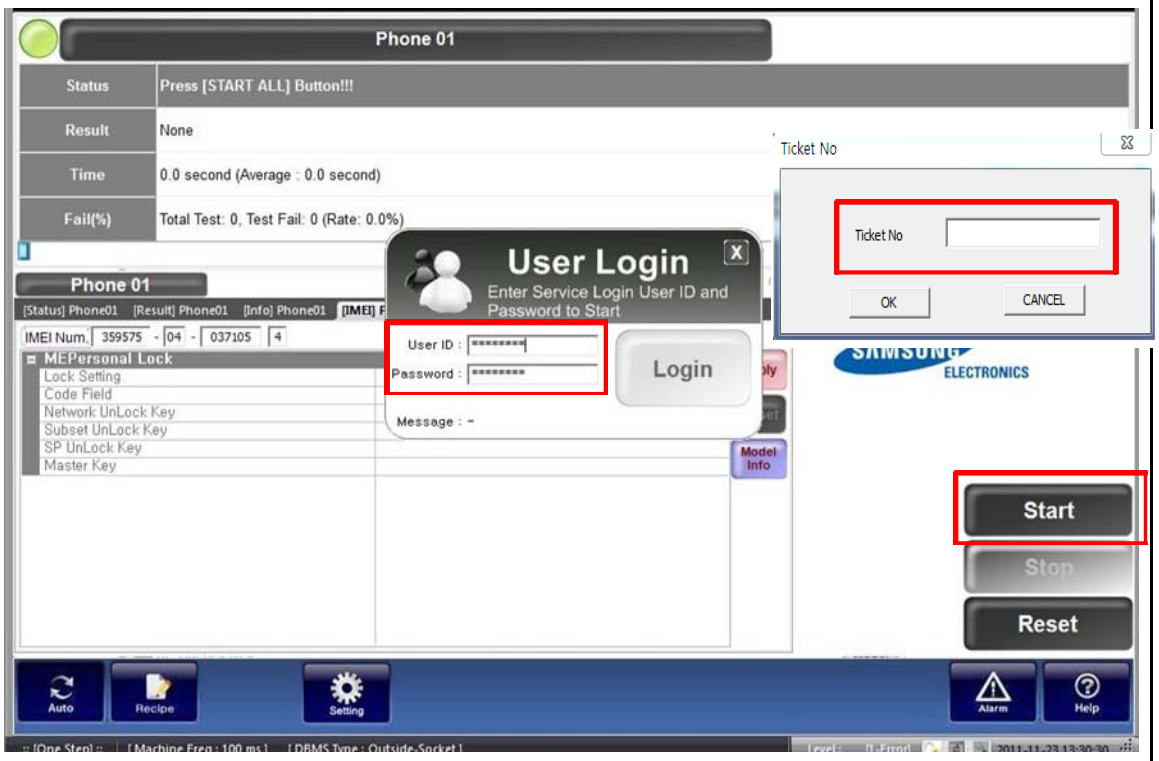
6. Level 1 Repair

16. ① Click Start, and input IMEI writing ID and Password →②input Ticket No

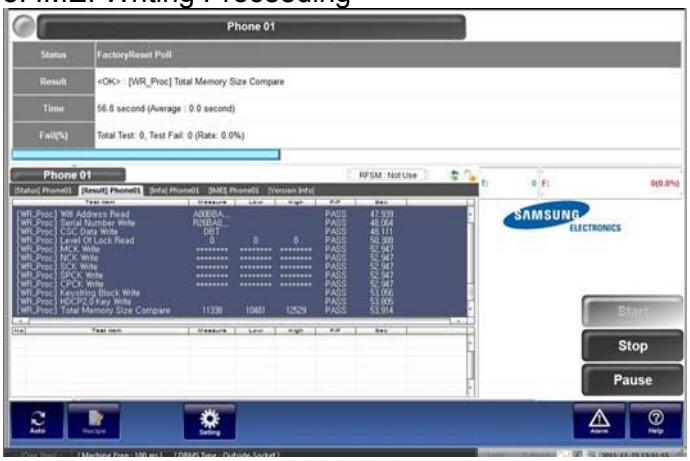


17. Connect the phone to Anyway JIG

※ When you connect the phone, the phone should be turned off.

After connecting the phone, the phone will be booted automatically.

18. IMEI Writing Proceeding



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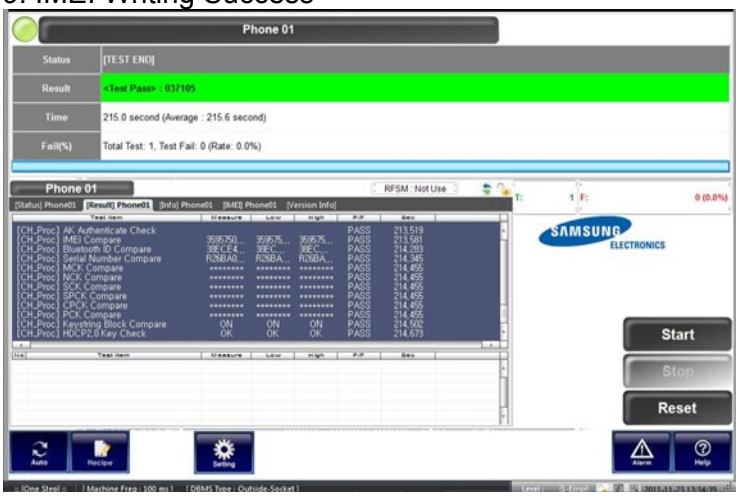
19. IMEI Writing Success



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7-2. Battery Accumulated Usage Initialization

7-2-1 Notice

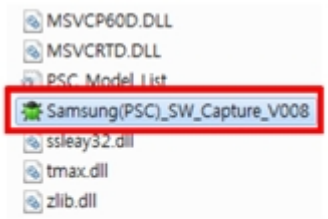
- It is necessary to initialize the battery accumulated usage for all cases of replacing the batteries.

7-2-2 You need :

- SM-T719 set
- Laptop or Note PC
- Anyway Jig
- UART Serial Cable
- IF Test Cable (Different by models)

7-2-3 Lay-out

7-2-4 How to Initialize Battery Accumulated Usage



① Run 'Samsung(PSC)_SW_Capture_V008.exe'.

② Check 'Battery' item in the box.

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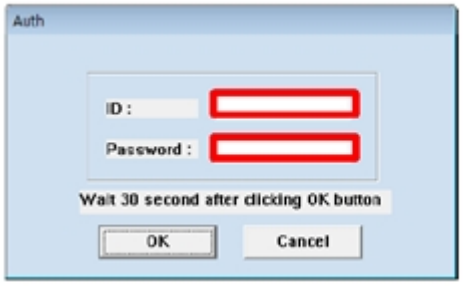
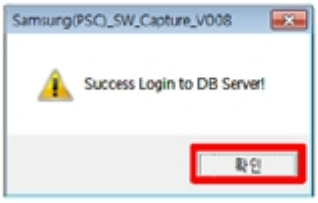
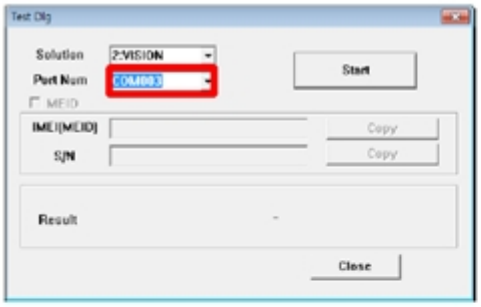
6. Level 1 Repair



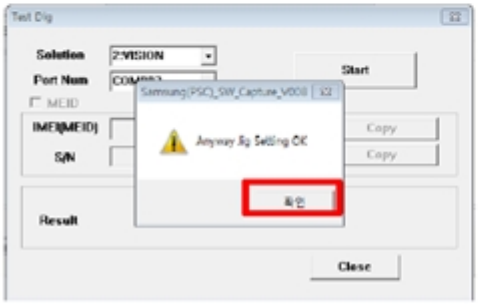
③ Input GSPN ID and Password, then press 'OK'.



④ Confirm Login to DB Server to press '확인'.



⑤ Set Port Number and press 'Start'.



⑥ Confirm the Anyway Jig Setting to press '확인'.

⑦ Connect Mobile device to IF Test cable, then power on to press power key.

※ Phone should be powered off before test.

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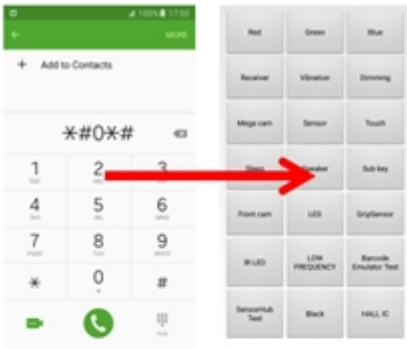
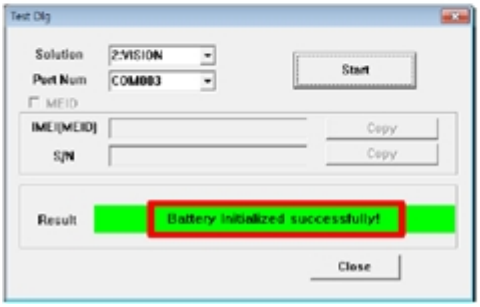
6. Level 1 Repair



※ **Only for S6, T355/P355**
- Enter *#0*# mode to communicate with the device under user binary status.

1) Turn on the device to press power key.
2) Input ***#0*#** in dial mode.
3) Connect Mobile device to IF Test cable.



⑧ Battery Accumulated Usage Initialization will start as soon as Booting complete.
※ LCD must be turned on in order to test properly.

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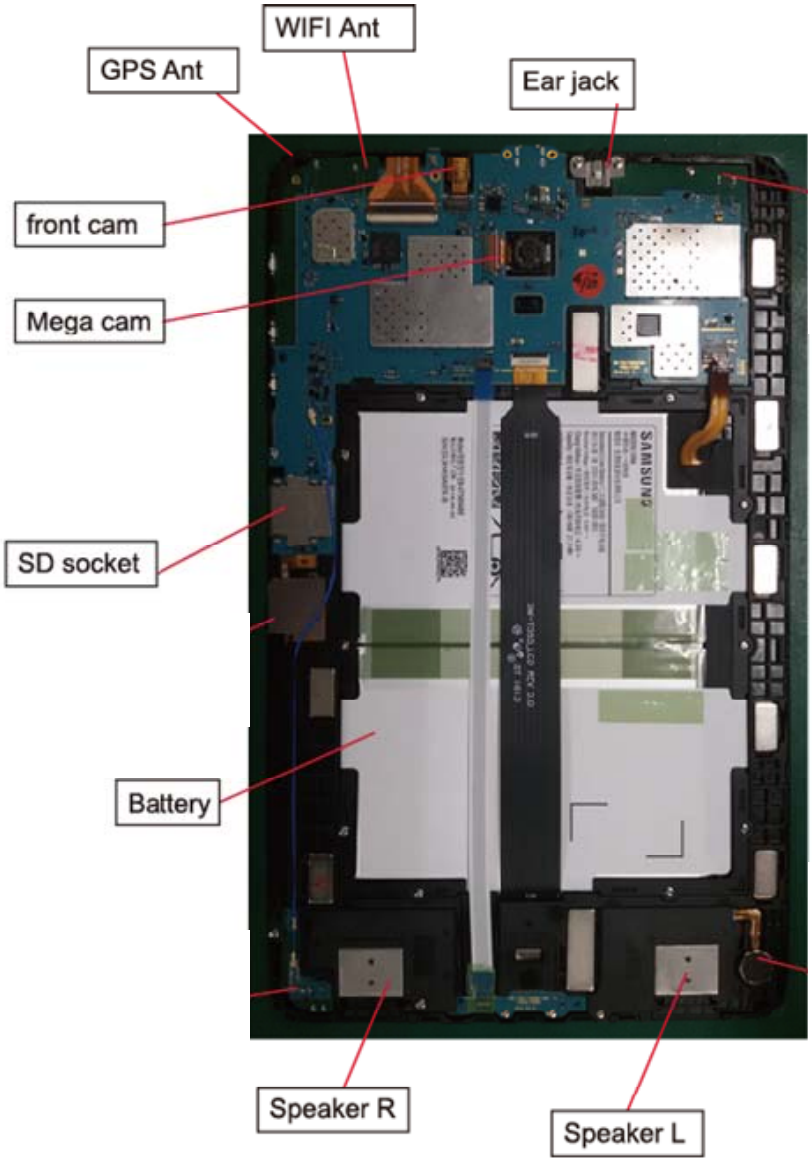
7. Level 2 Repair

7-1. Components on the Rear Case



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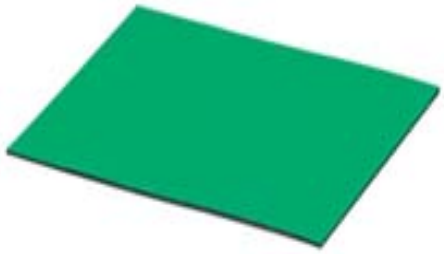
7. Level 2 Repair

7-2. Pre-requisite

Tweezers / Disass'y Stick / Screw Driver	**Anti-static Gloves**
	
Anti-static Mat	

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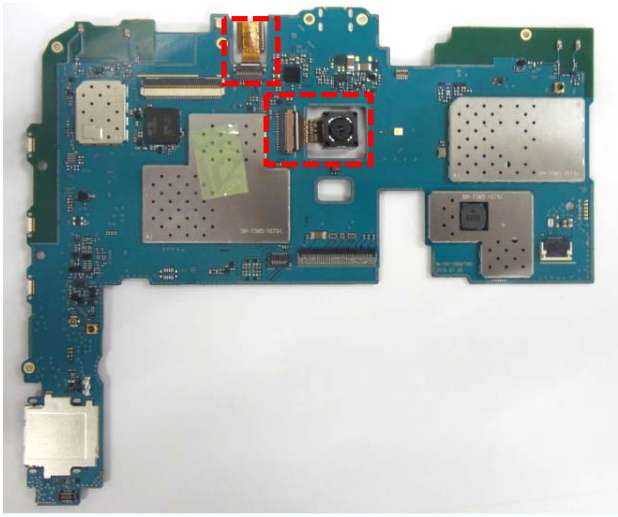
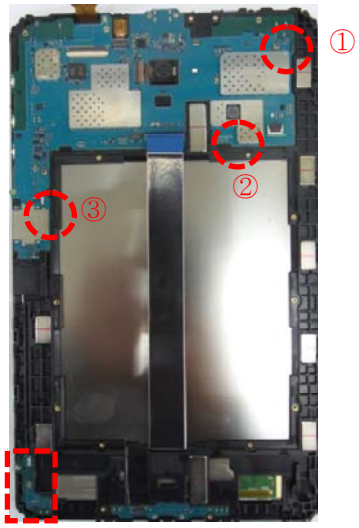
7-3. Parts which must be changed after repair

Assembly

1 Assemble PBA Ass'y 	2 Assemble EARJACK Ass'y
1. Assemble VGA/MEGA Camera on the PBA Ass'y	**1.Assemble Earjack rubber on Earjack.**
3 Assemble Front Ass'y 와 PBA Ass'y[1]  	4 Assemble Front Ass'y 와 PBA Ass'y[2]
1.Assemble 3point of hooks accurately as the order on the picture. *Be careful not to damage **2.Assemble Sub PBA.**	**1.Assemble SPK, SIM SOCKET on Front Ass'y.** **2.Remove a release paper on Earjack. Assemble Earjack on Front Ass'y. And then, attach Earjack sus to Front Ass'y** ***Must check SIM Socket, Earjack connector assembled.**

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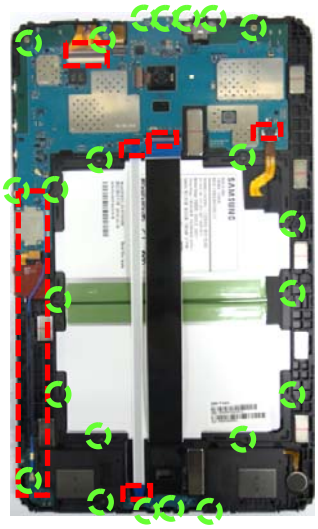
7. Level 2 Repair

5	Assemble Front Ass'y 와 PBA Ass'y [2]	6	Front Ass'y 와 Rear 조립[1]
			
1.Assemble coaxial cable. **2.Assemble TSP, LCD, HOME KEY, BATTERY FPCB.** **3.Screw 23Points in order.** **-.Torque : 1.4±0.1kgf**		**1. Insert right side of Front assy into rear first. Assemble 8points of hooks accurately as the order on the picture.**	

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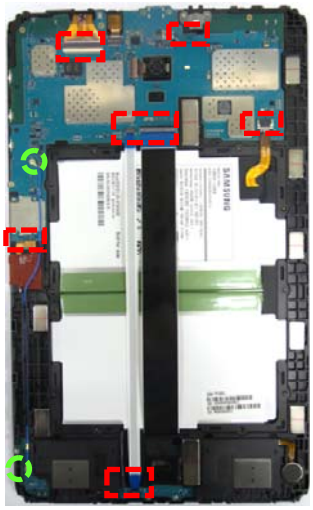
7. Level 2 Repair

Disassembly

1 Disassembly Rear Cover	2 Disassemble Front Ass'y[1]
	
1. Disassemble 10points of hooks accurately as the order on the picture. **2. Lift the Front Assy, And then, disassemble Rear Cover**	**1.Disassemble TSP, LCD, HOME KEY, SIM SOCKET, EARJACK.** **2.Disassemble coaxial cable.**
1. Loosen 23points of screw. **2.Disassemble PBA Ass'y, SUB PBA, SIM SOCKET, EARJACK, SPK, Battery on Front Ass'y.**	

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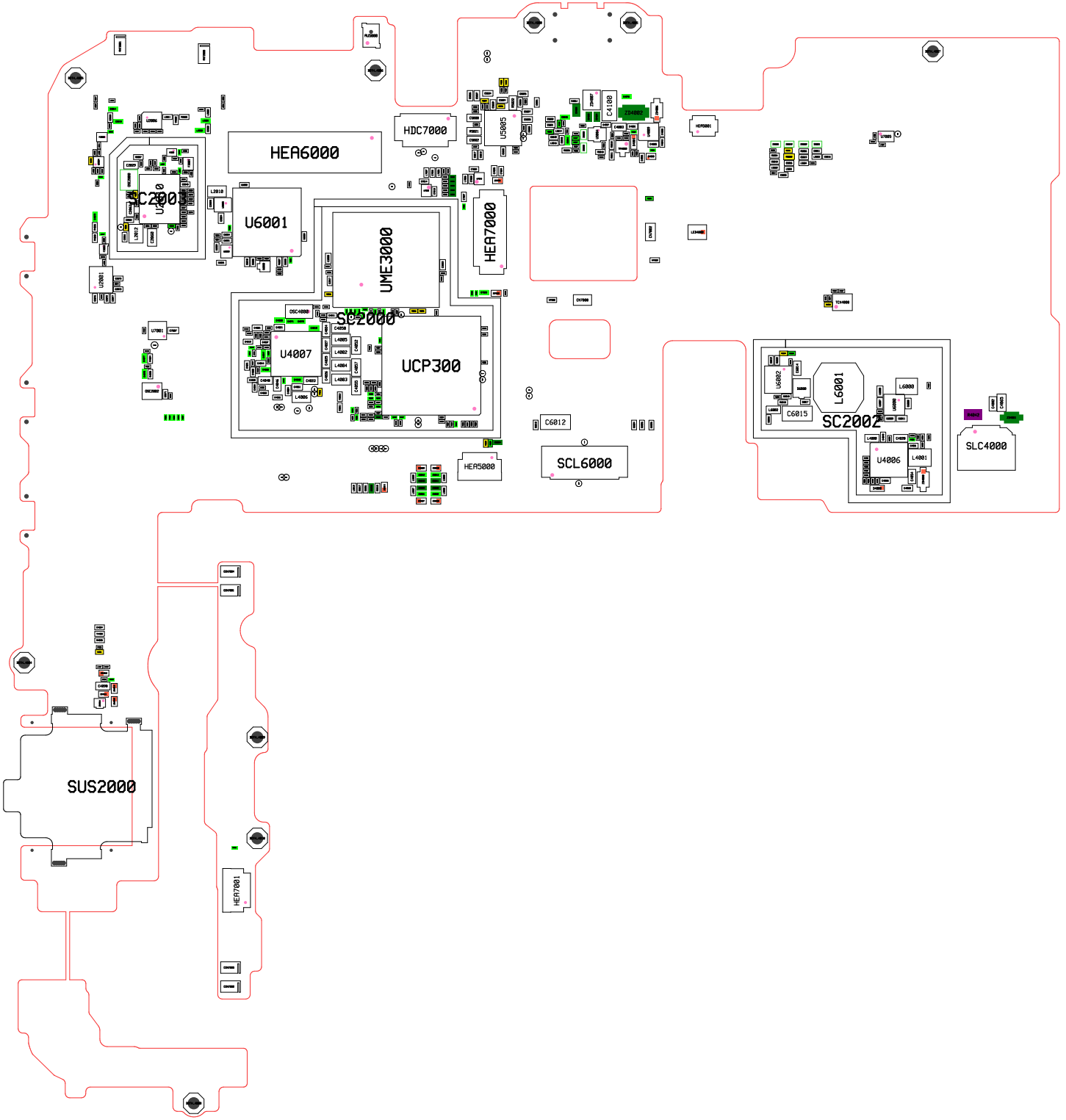
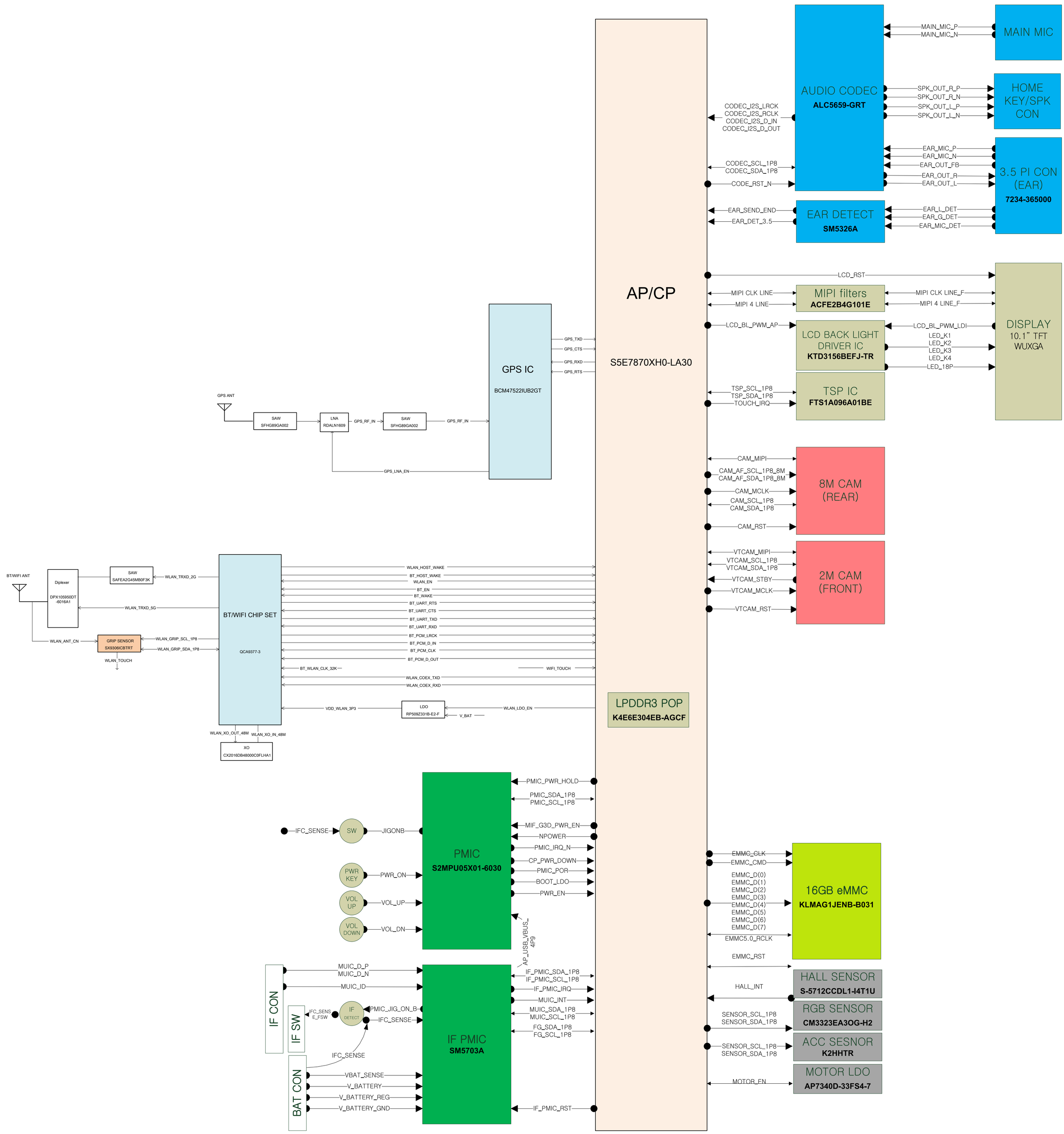

HEA6000
HDC7000
U5005
C4100
Z04002
HER0001
U7000
SC2001
U6001
UME3000
HEA7000
SC2000
U4007
UCP300
C6012
SCL6000
HEA5000
SC2002
L6001
U6002
C6015
U4006
L4001
SLC4000
SUS2000
HEA7001

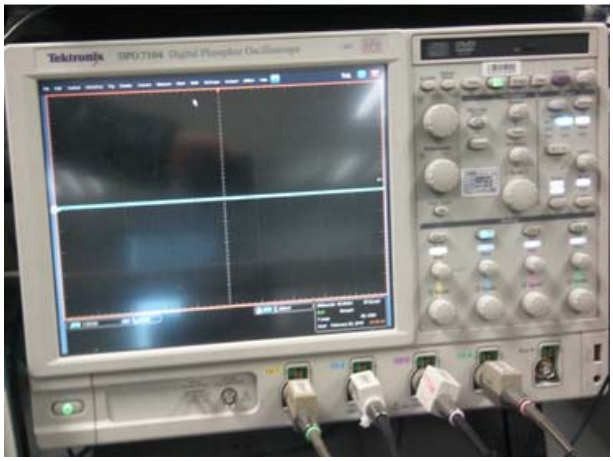
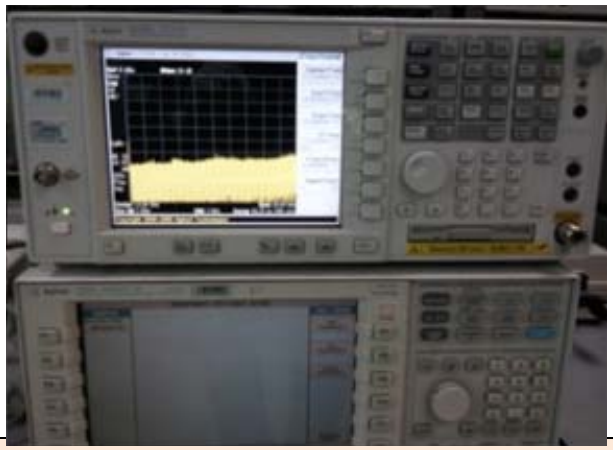
IFC4000
U7008
FPC4002
FPC4000
FPC4001
SW7000
SD4000

SM -T585 Block Diagram



8. Level 3 Repair

8-3. Flow chart of Troubleshooting.

	
Oscilloscope	Digital Multimeter
Power Supply	+ driver, ESD Safe Tweezer
	
8960 & Spectrum Analyzer	Soldering iron

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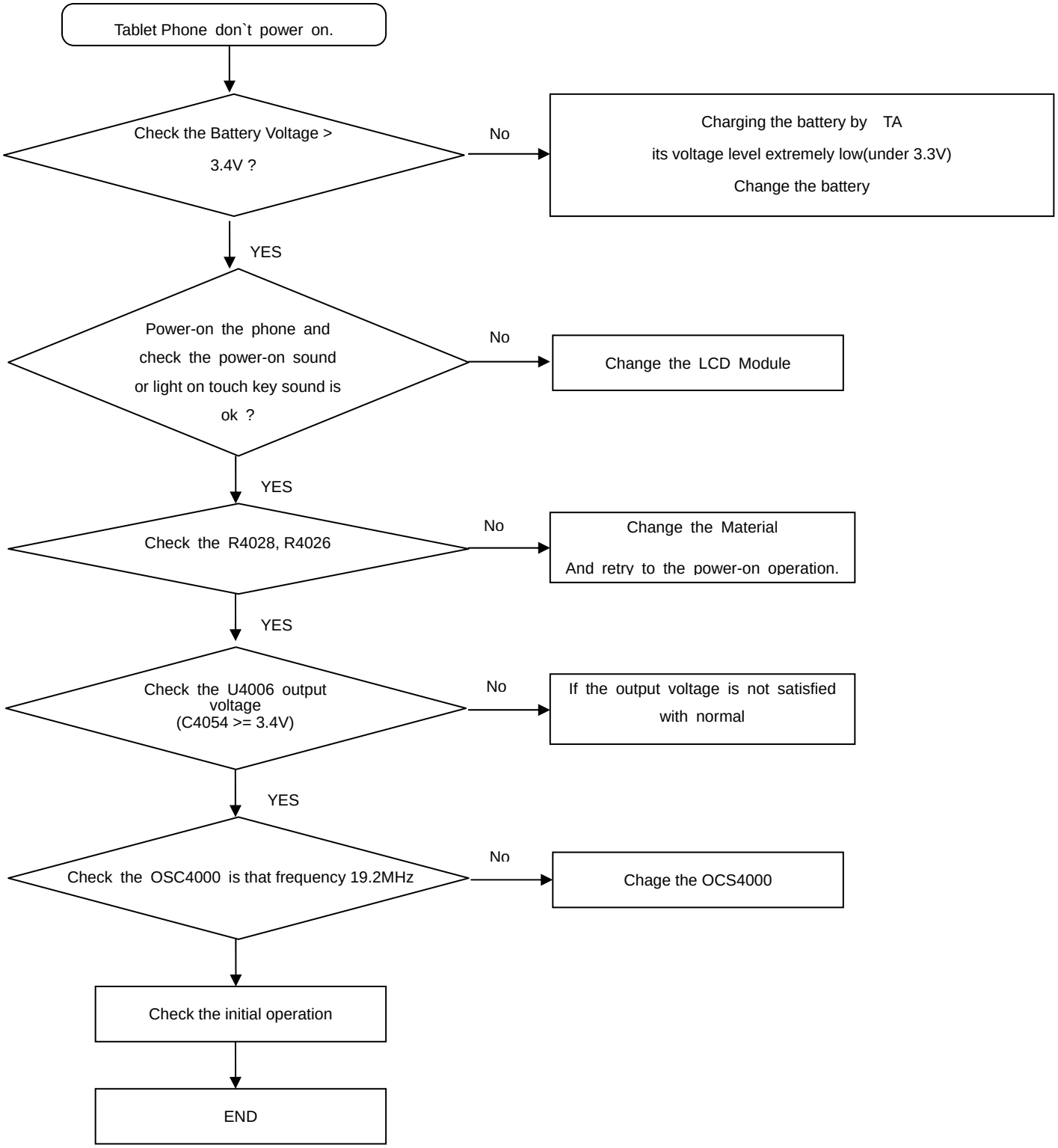
8. Level 3 Repair

8-4-1. POWER ON



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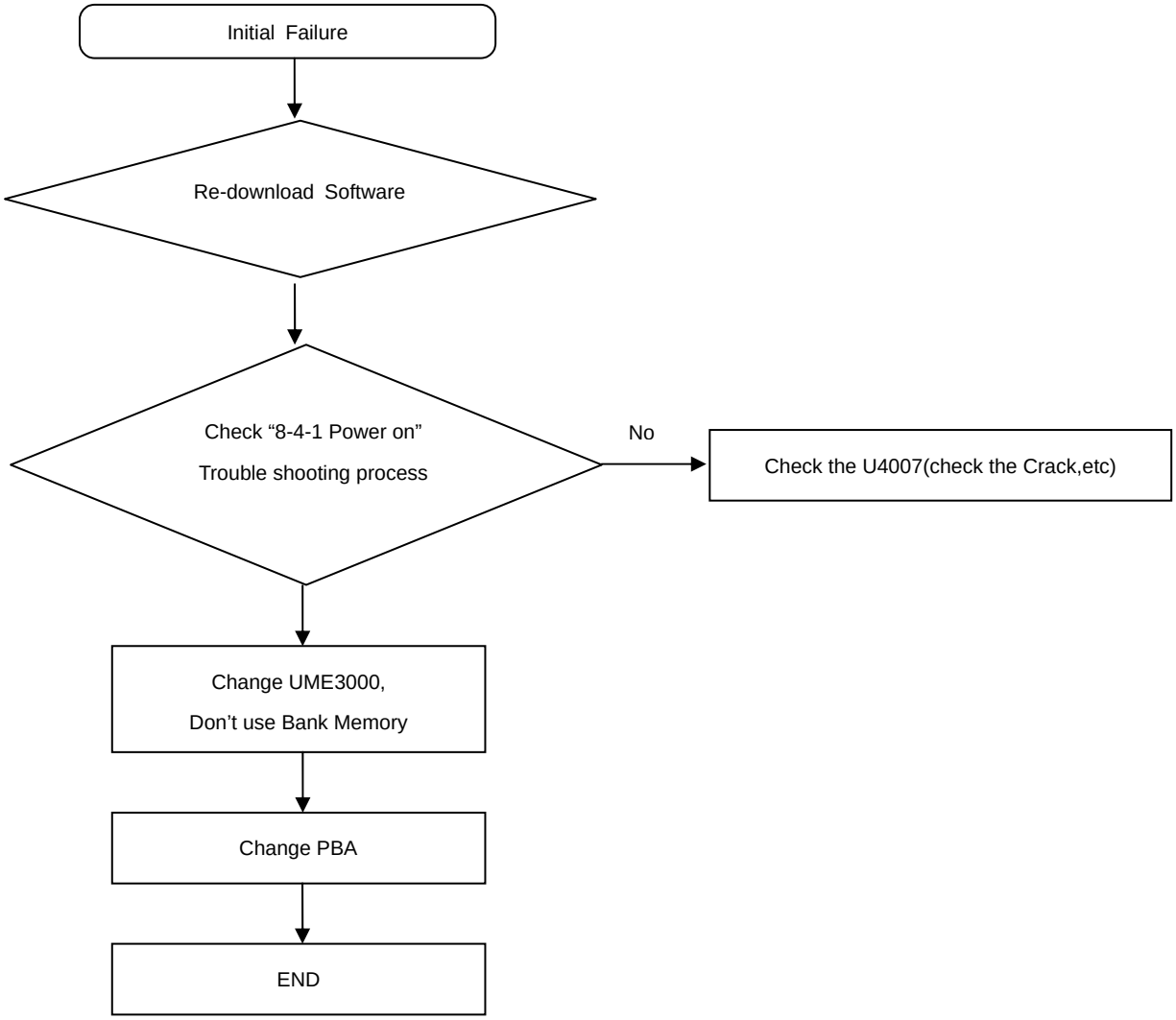
8-4-2. INITIAL



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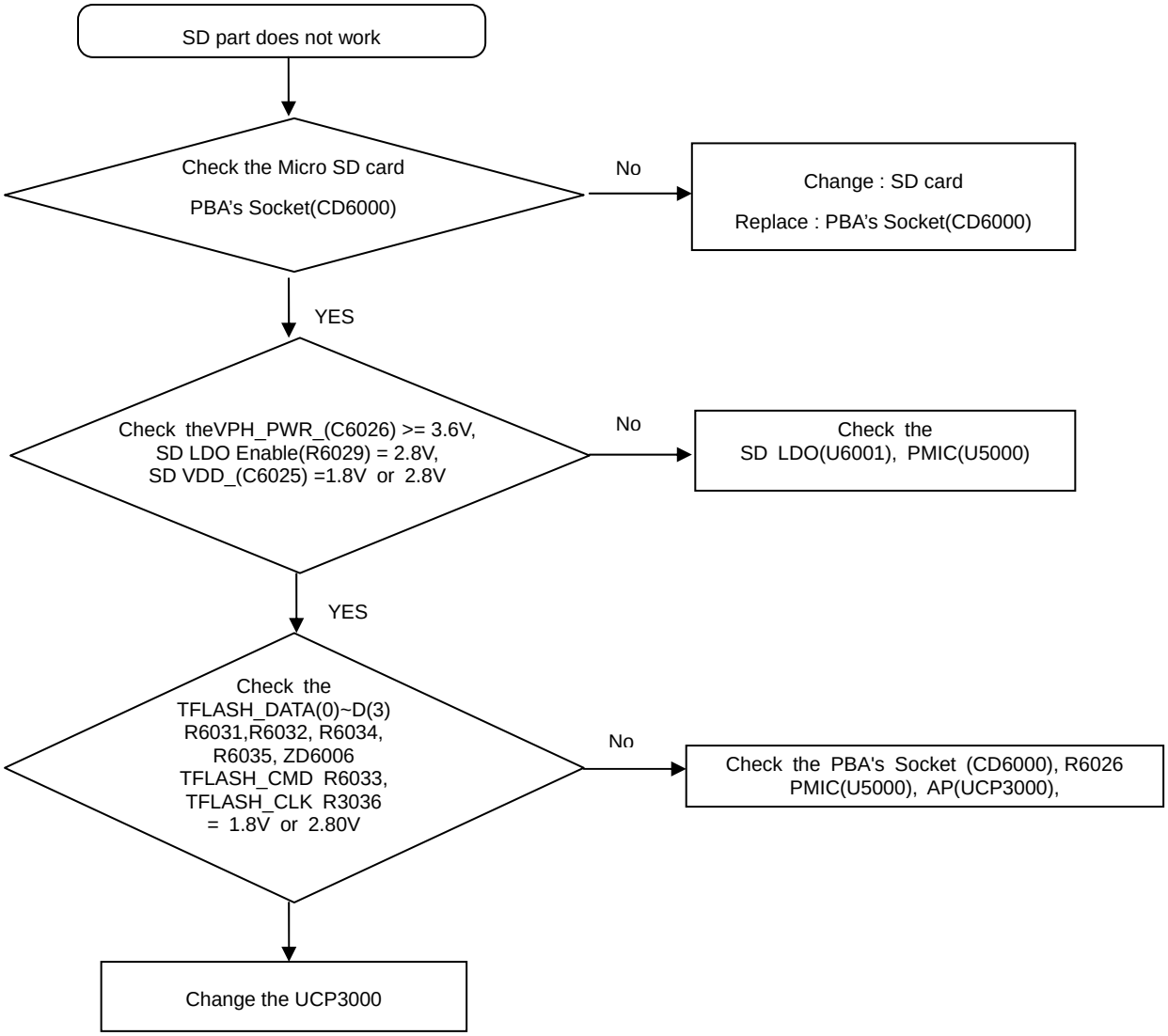
8-4-3. SD PART



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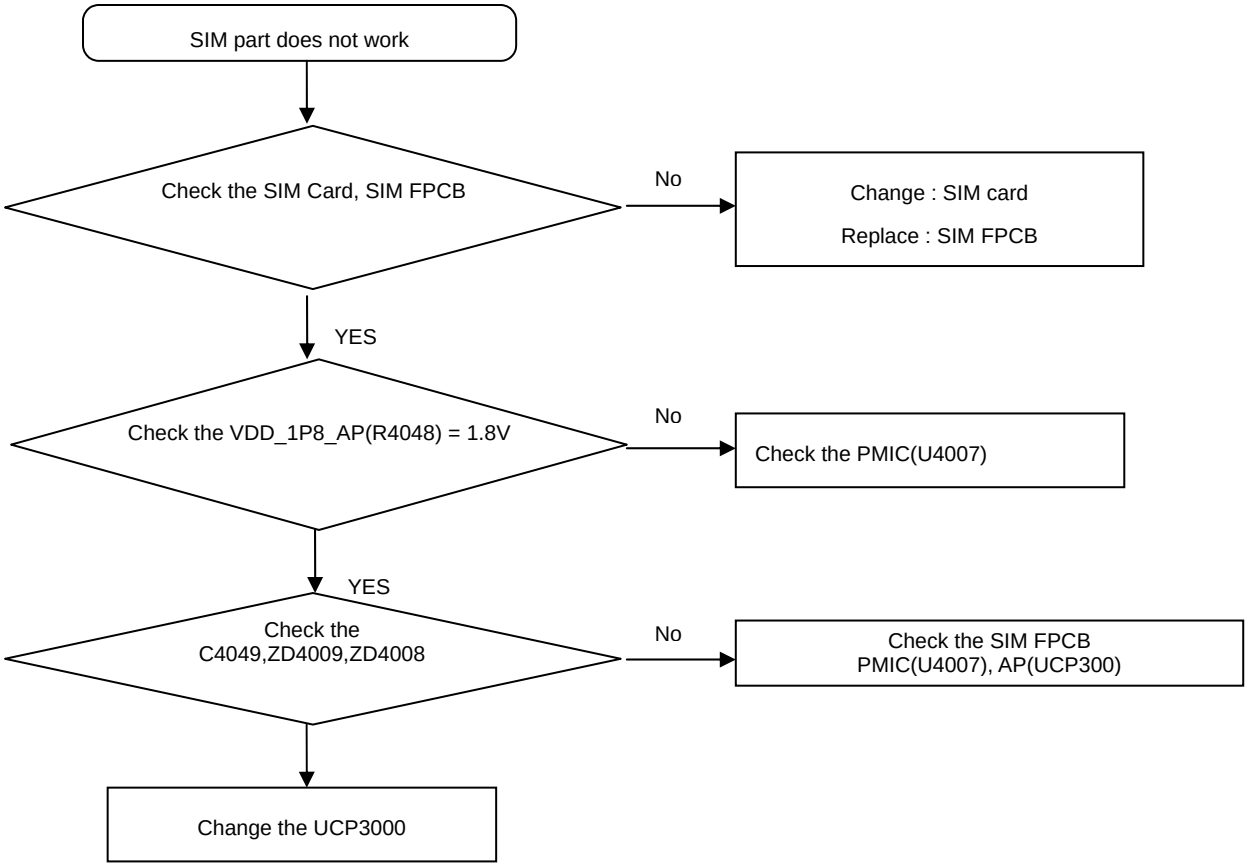
8-4-4. SIM PART



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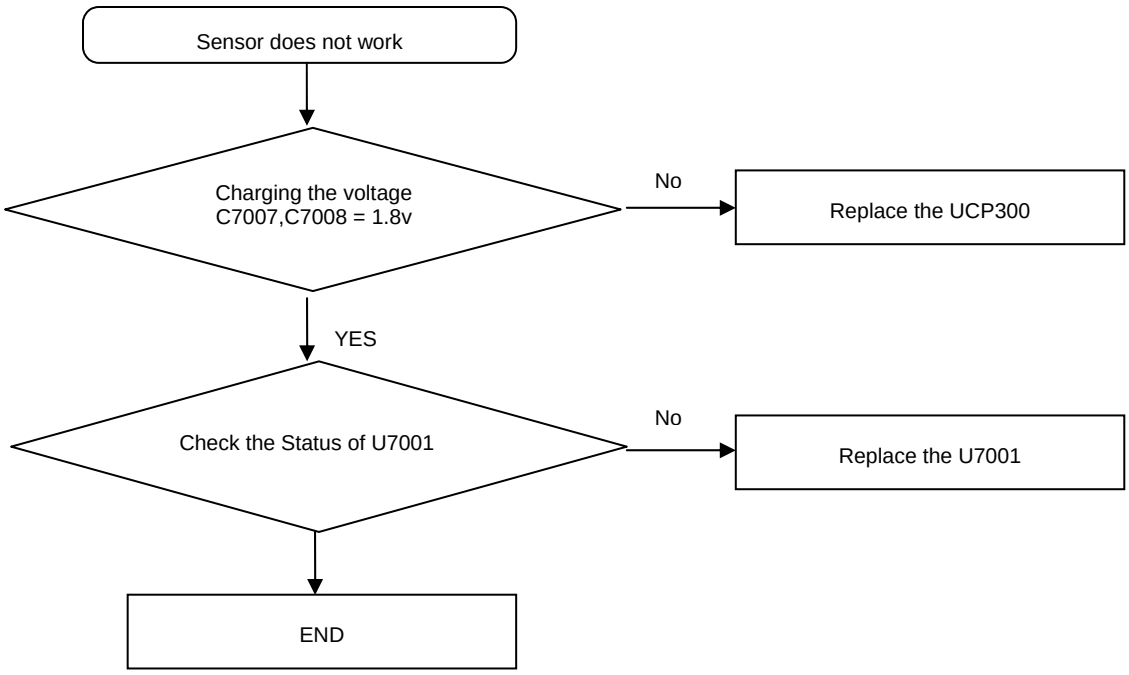
8-4-5. ACC Sensor



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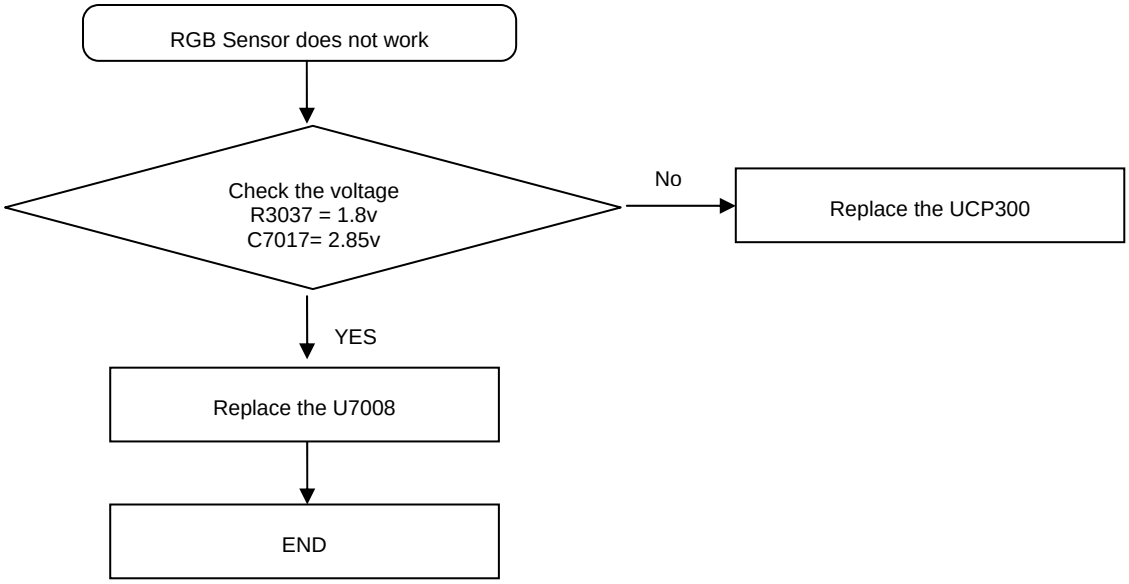
8-4-6. RGB Sensor



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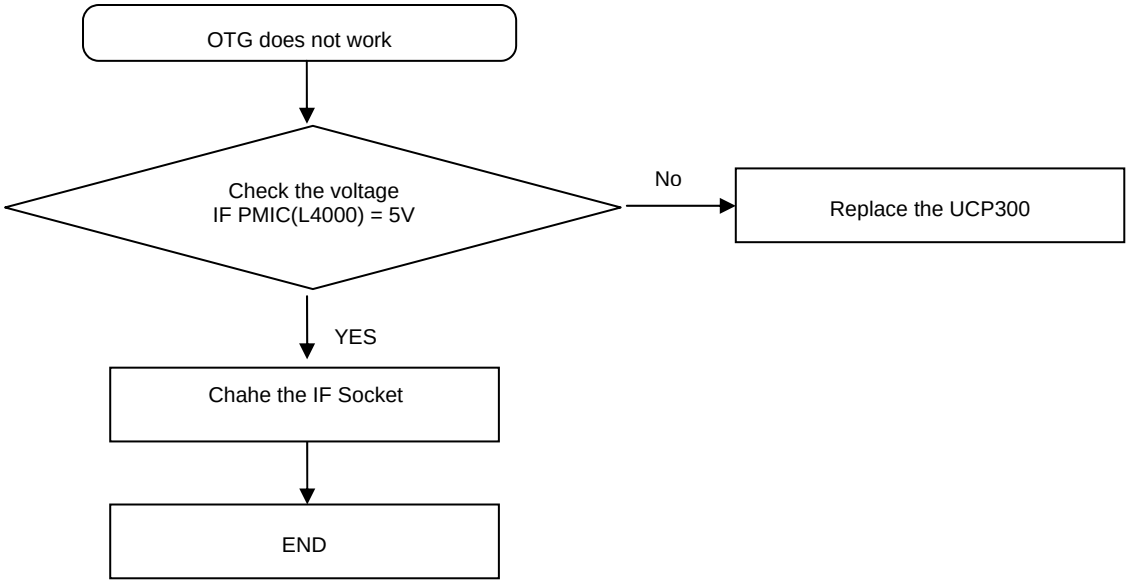
8-4-7. OTG



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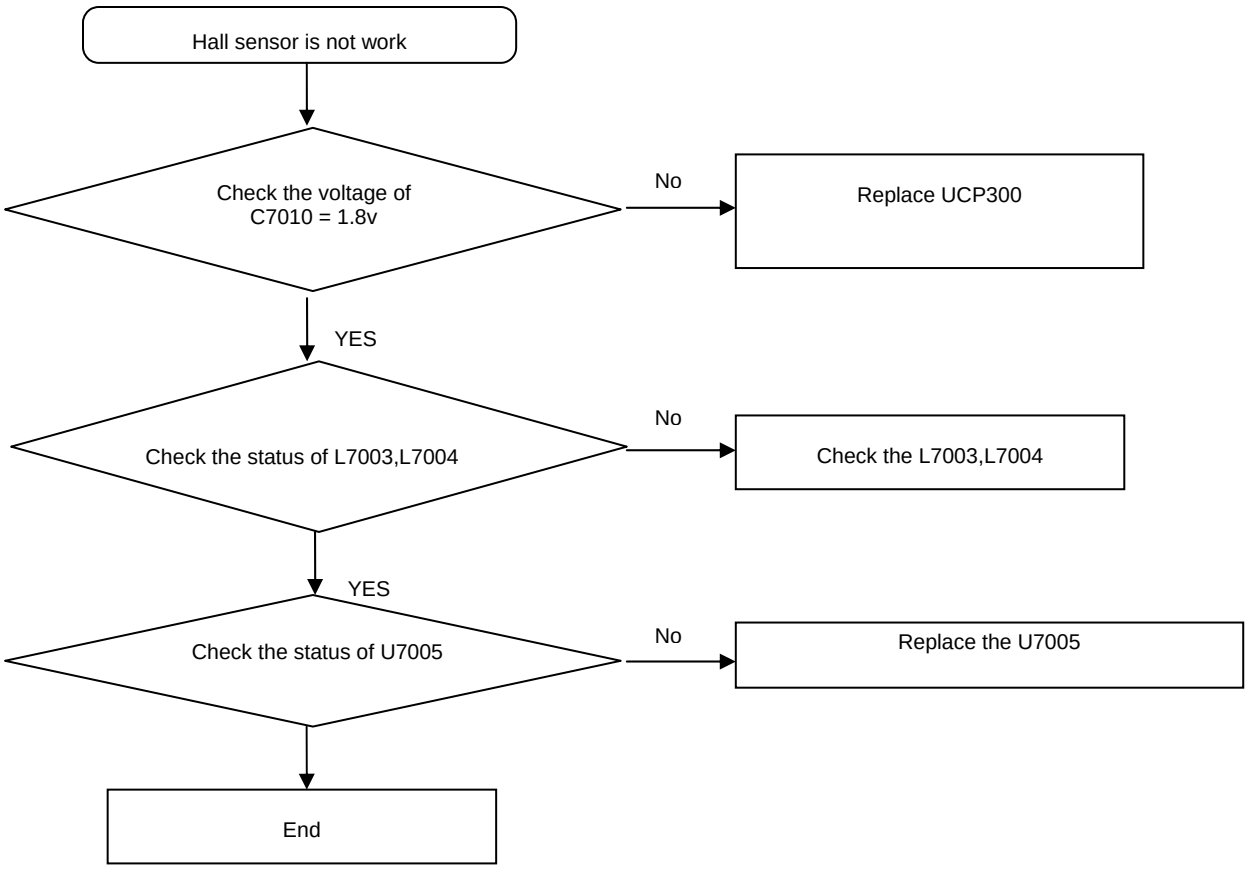
8-4-8. Hall IC



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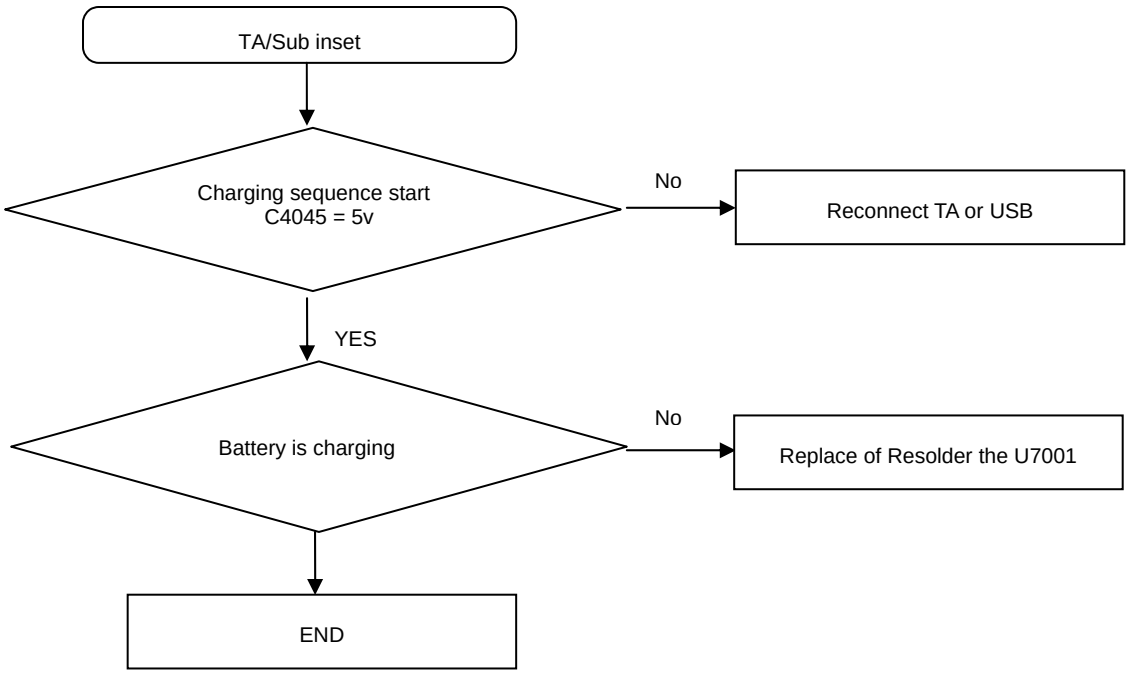
8-4-9. Charging part



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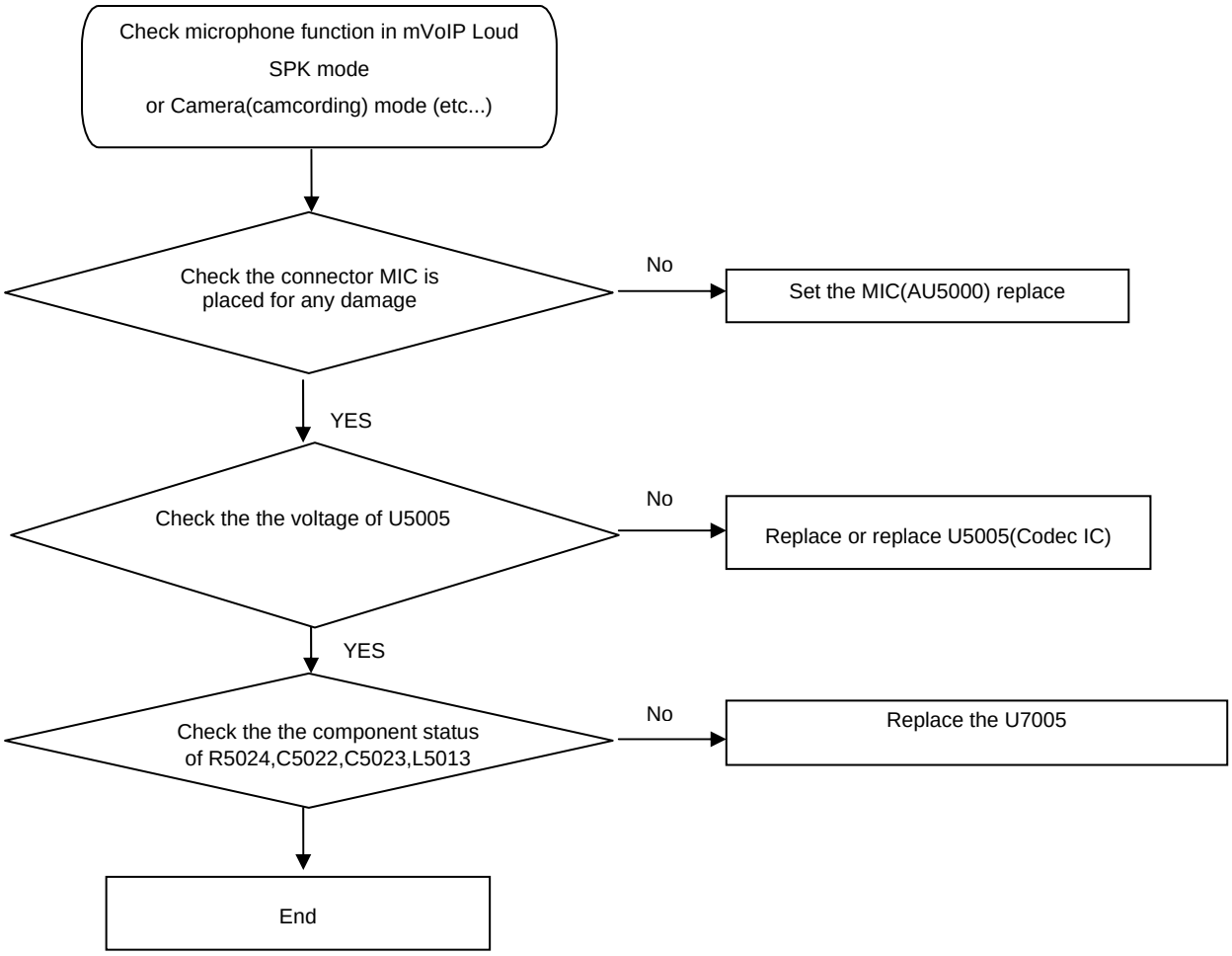
8-4-10. Microphone Part - Main MIC



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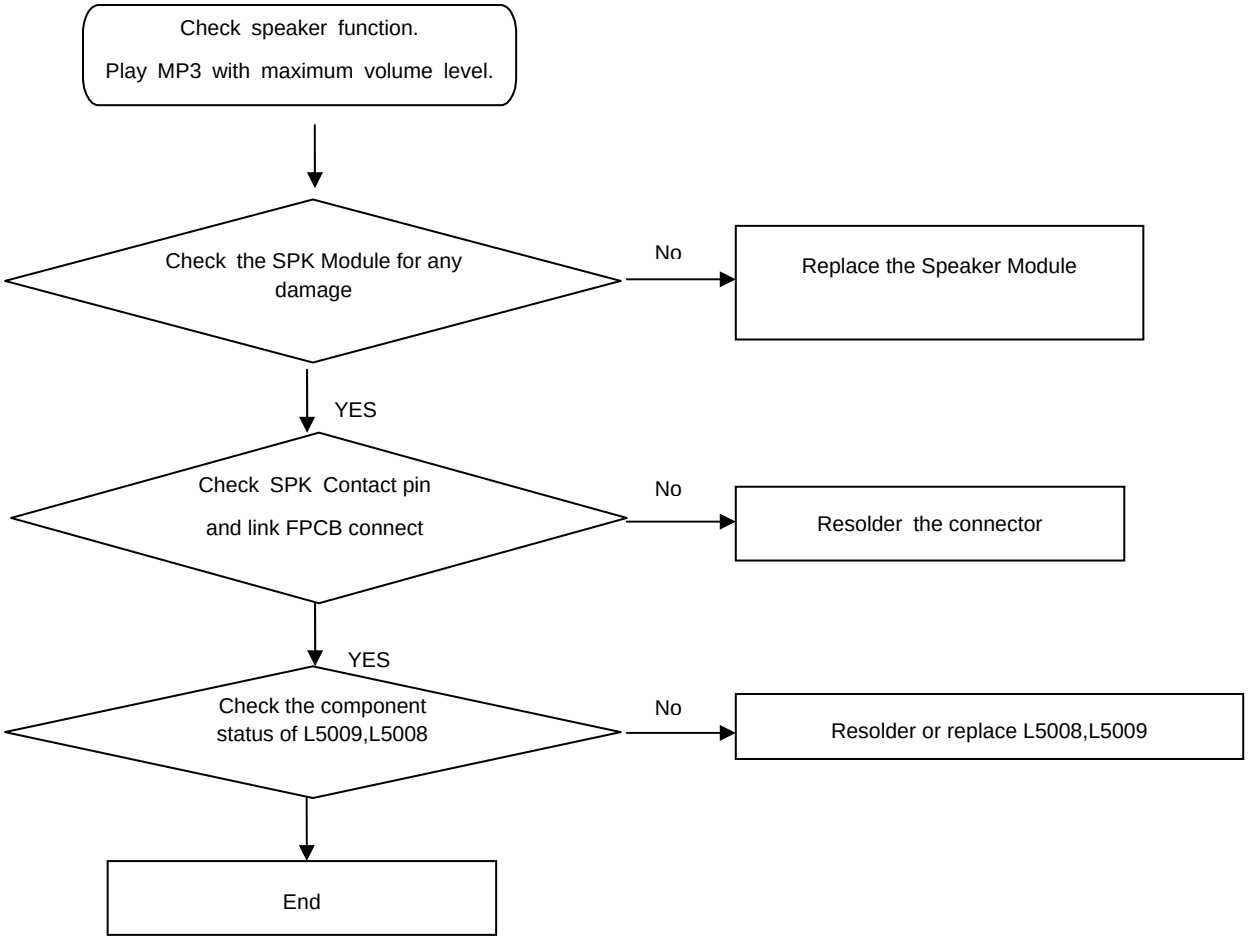
8-4-11. Speaker R Part



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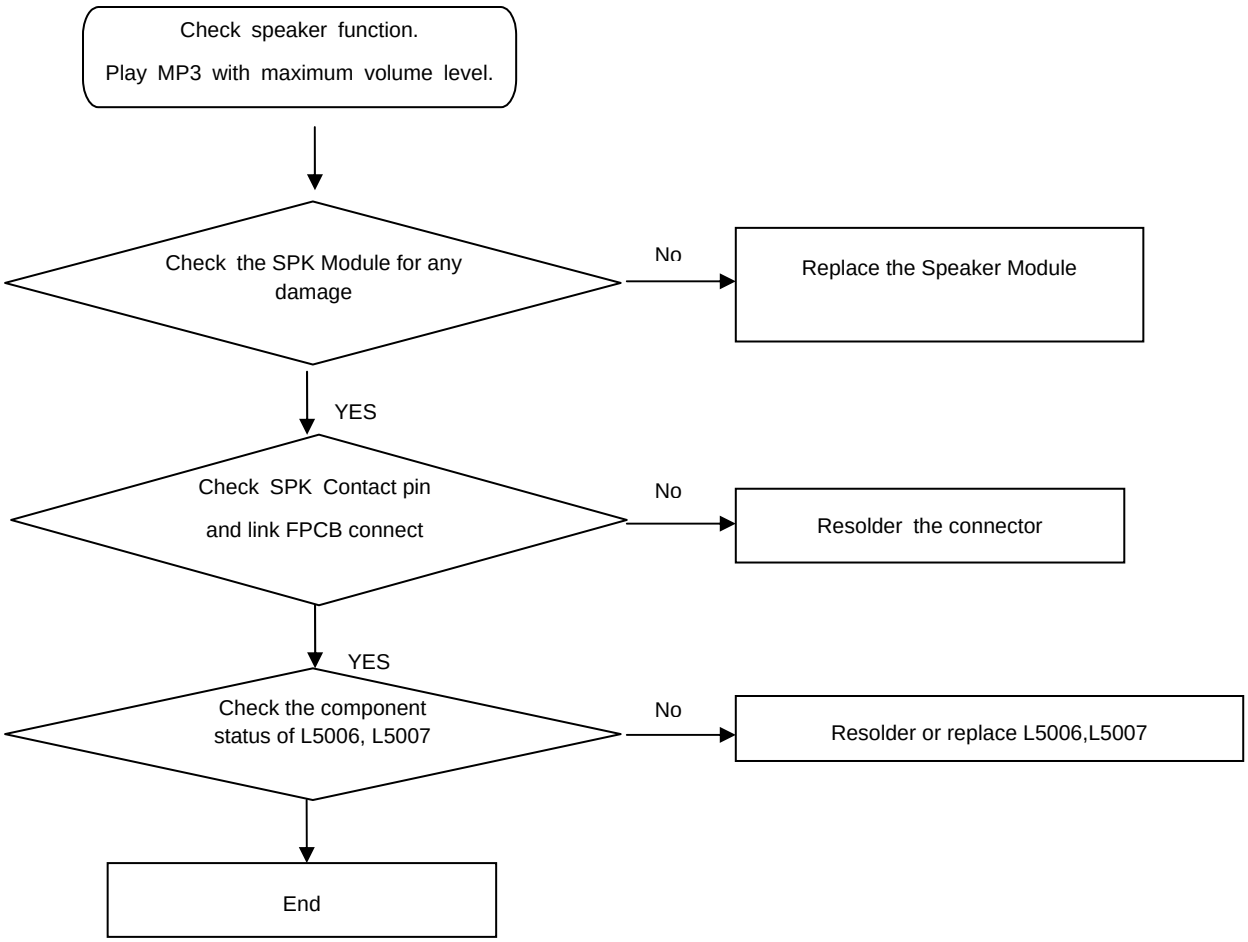
8-4-11. Speaker L Part



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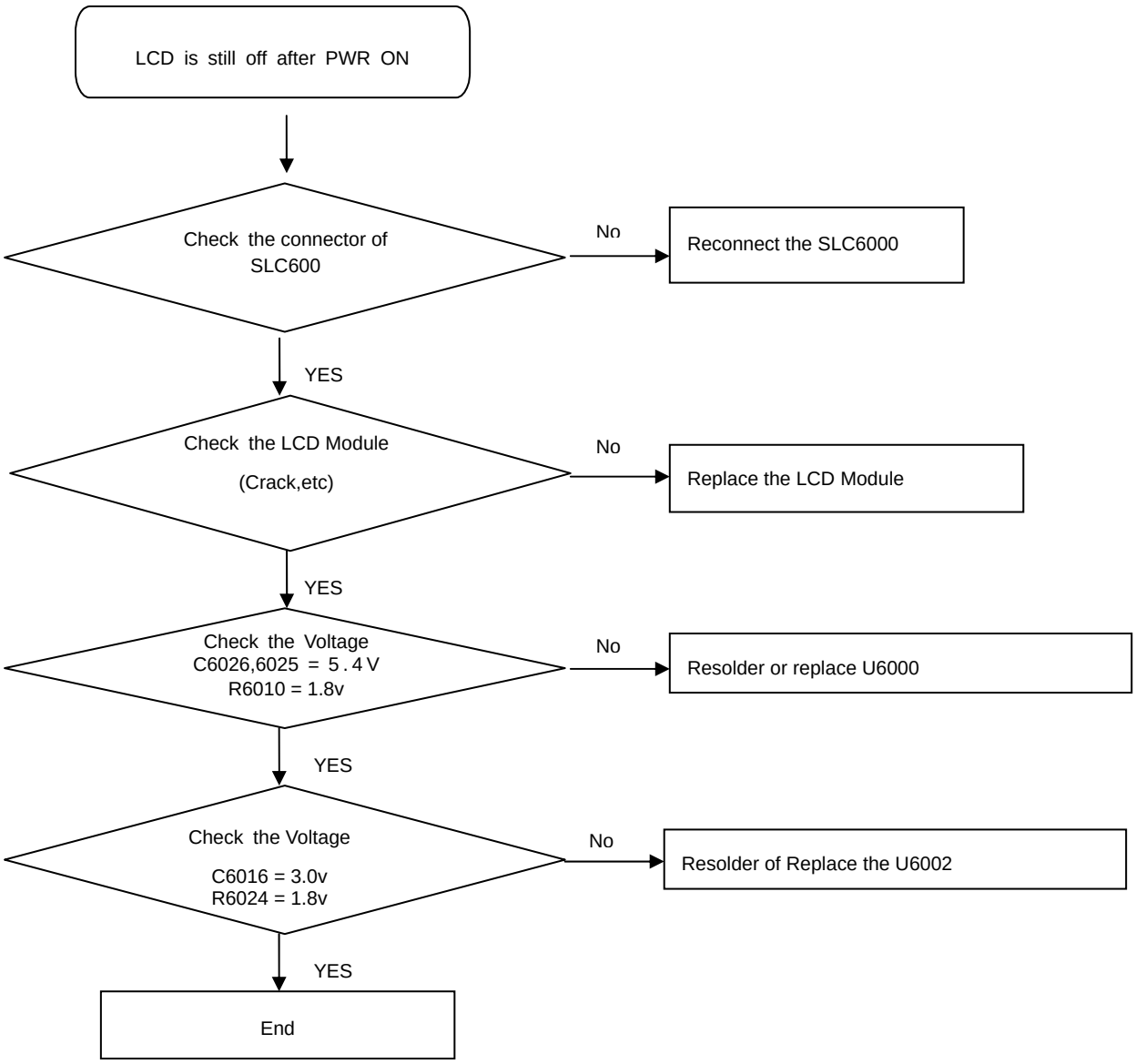
8-4-13. Display



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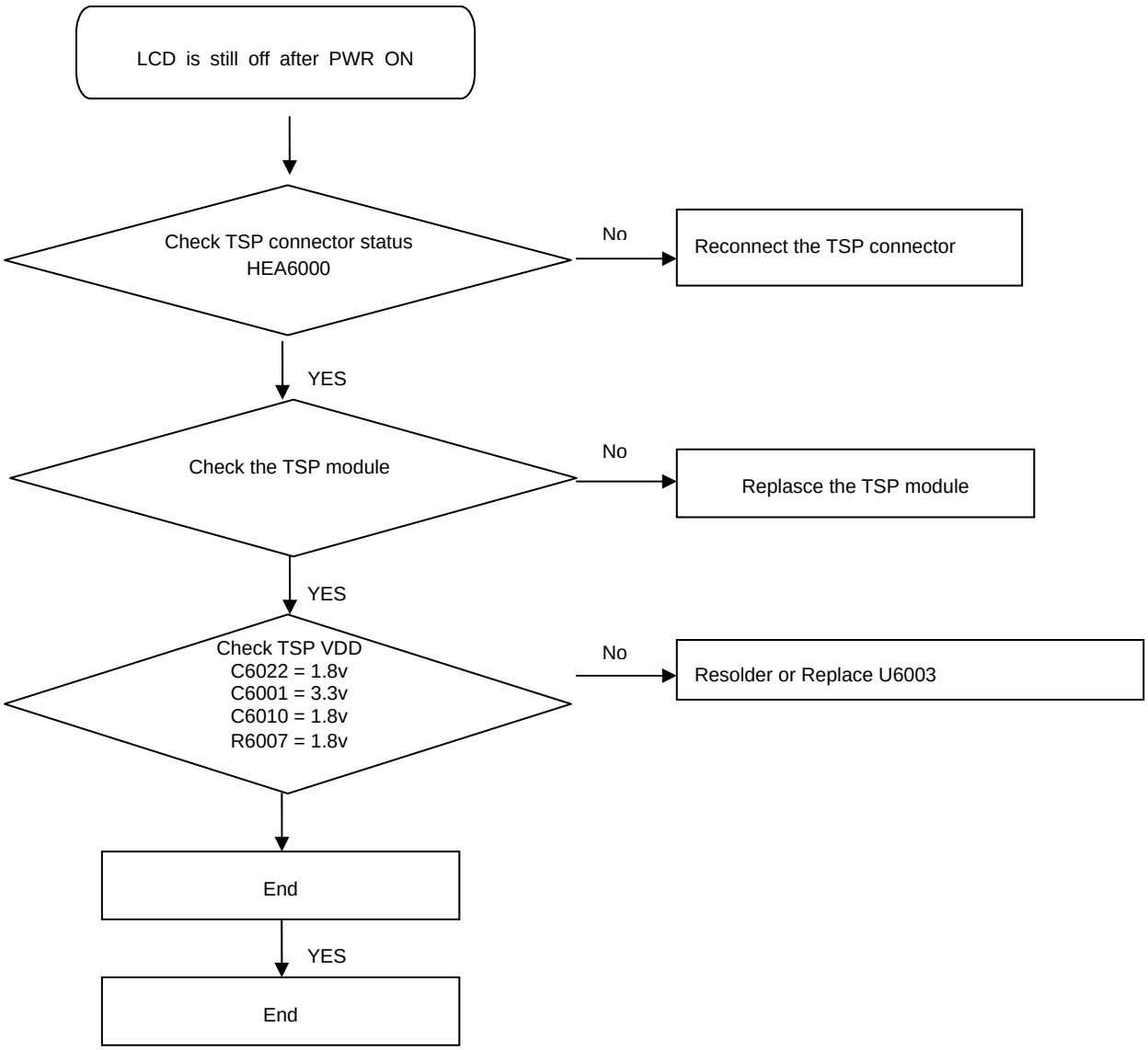
8-4-14. TSP



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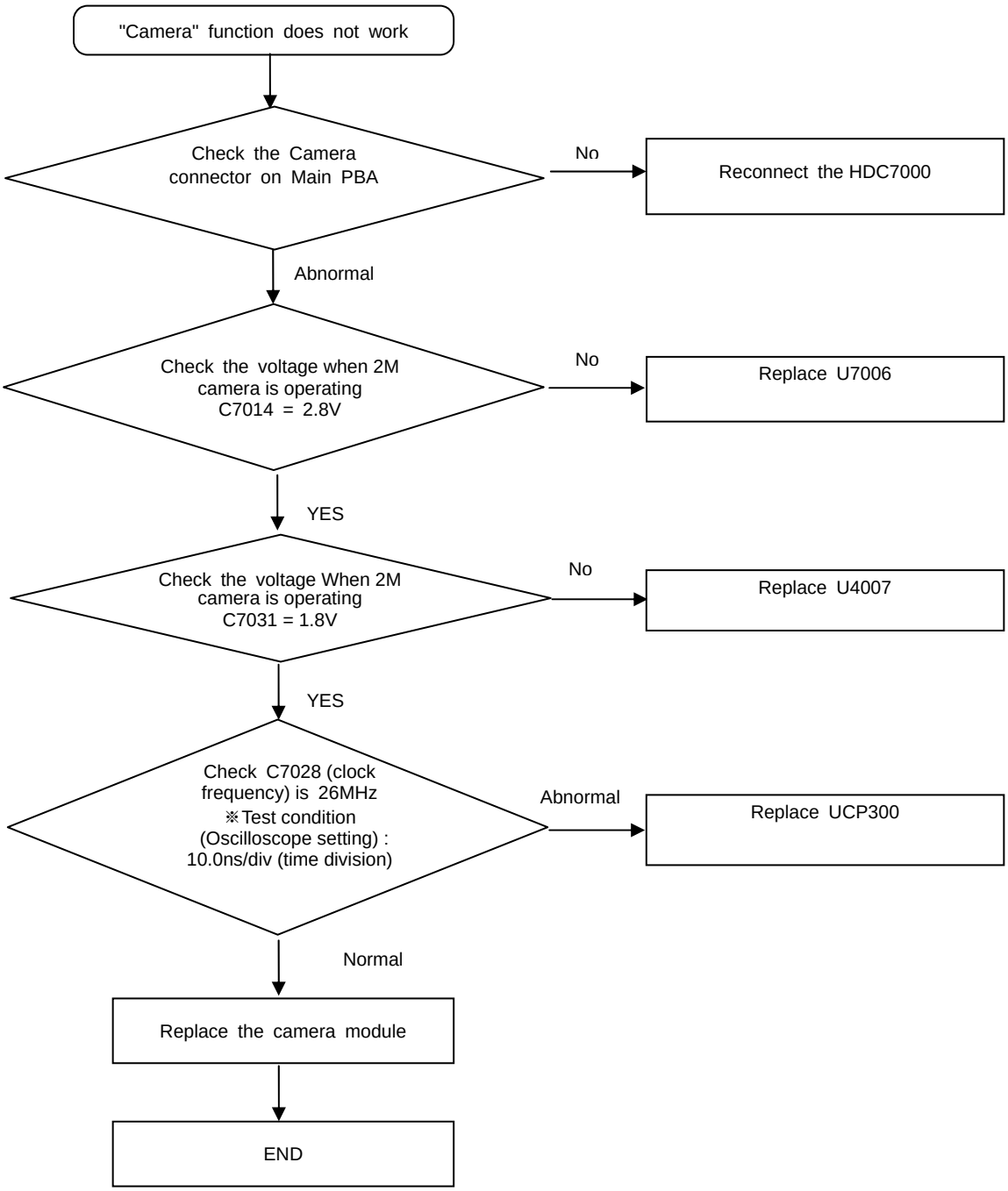
8-4-15. 2M CAM



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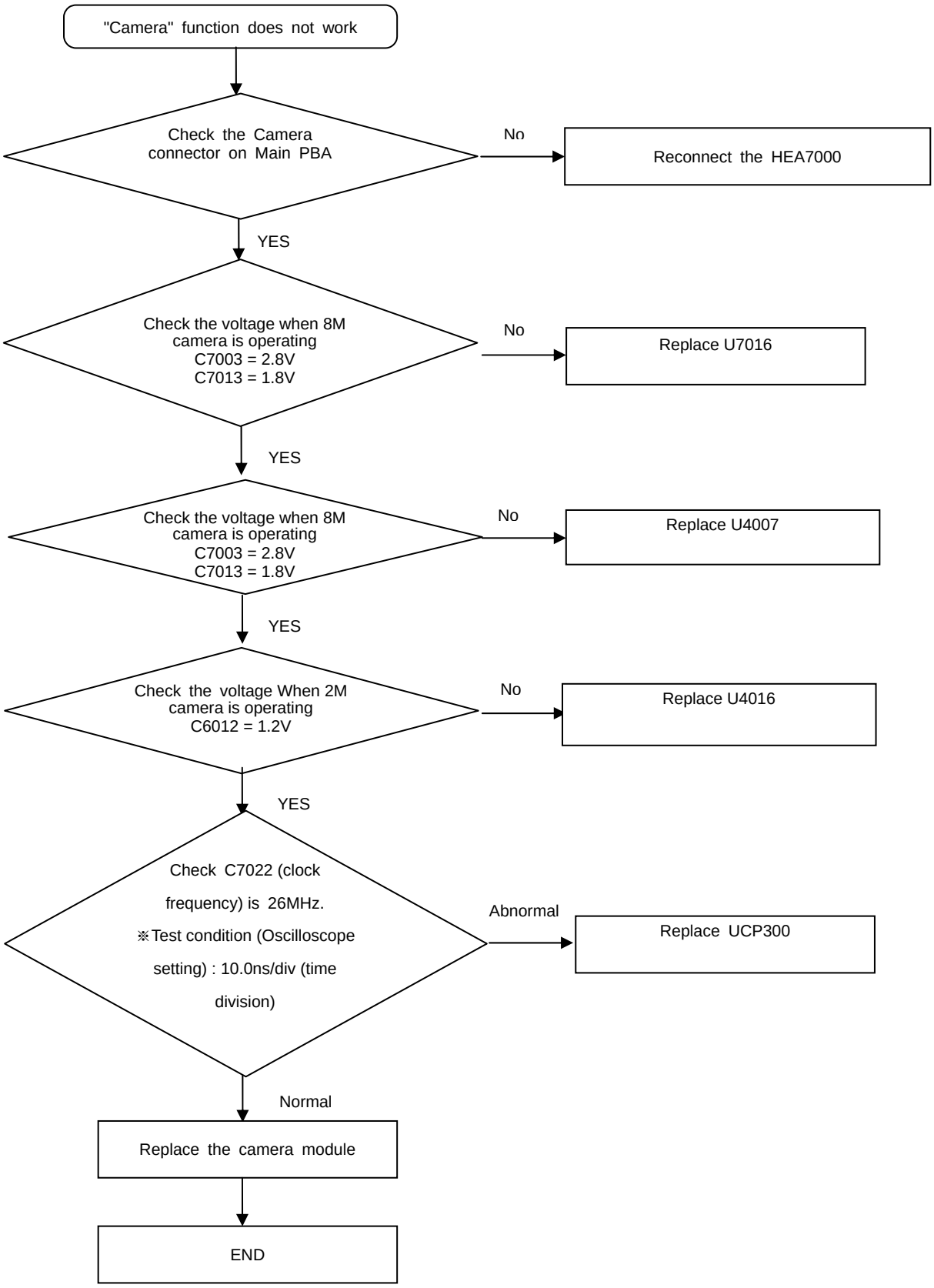
8-4-16. 8 M CAM



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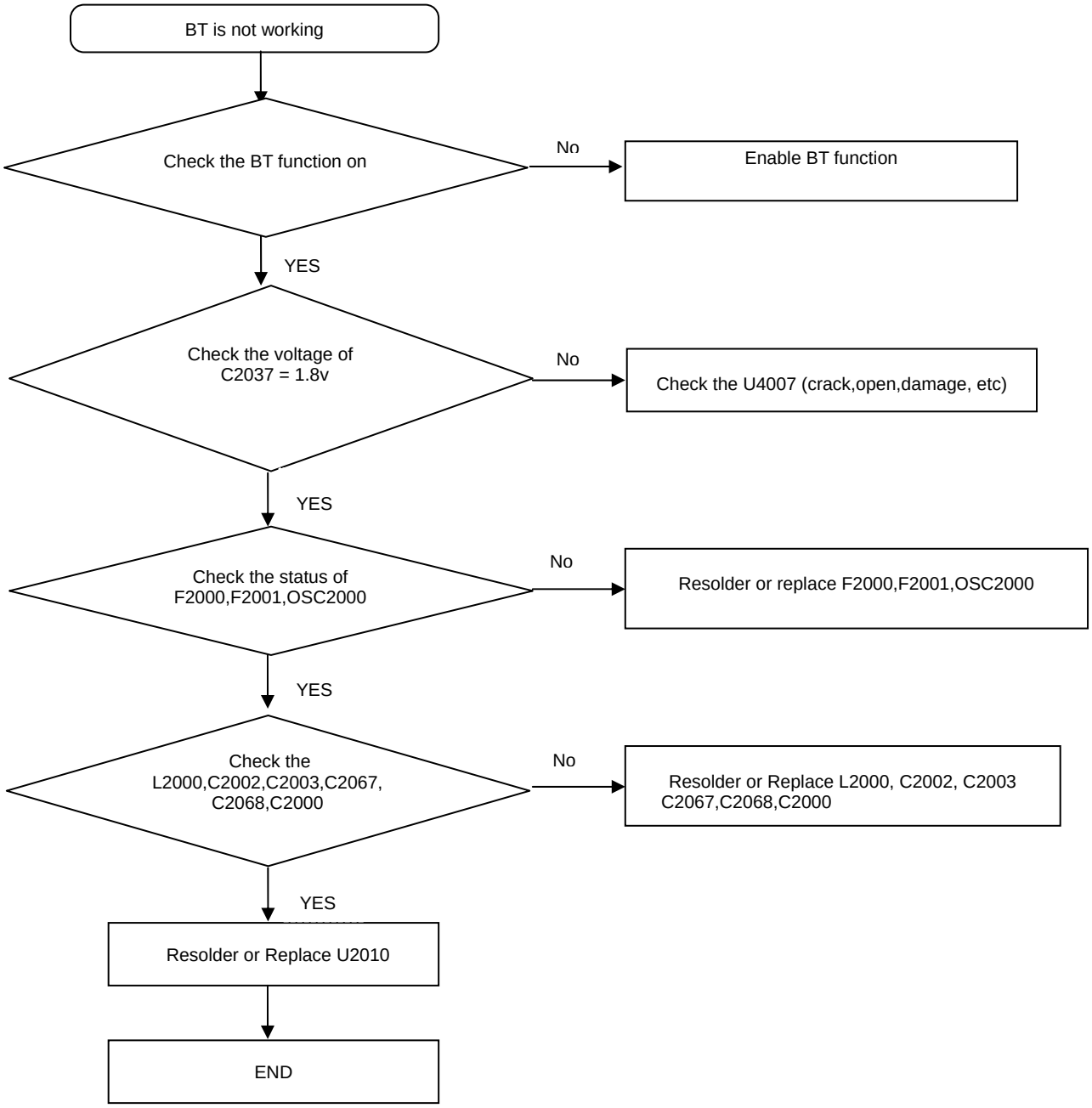
8-4-17. BT part



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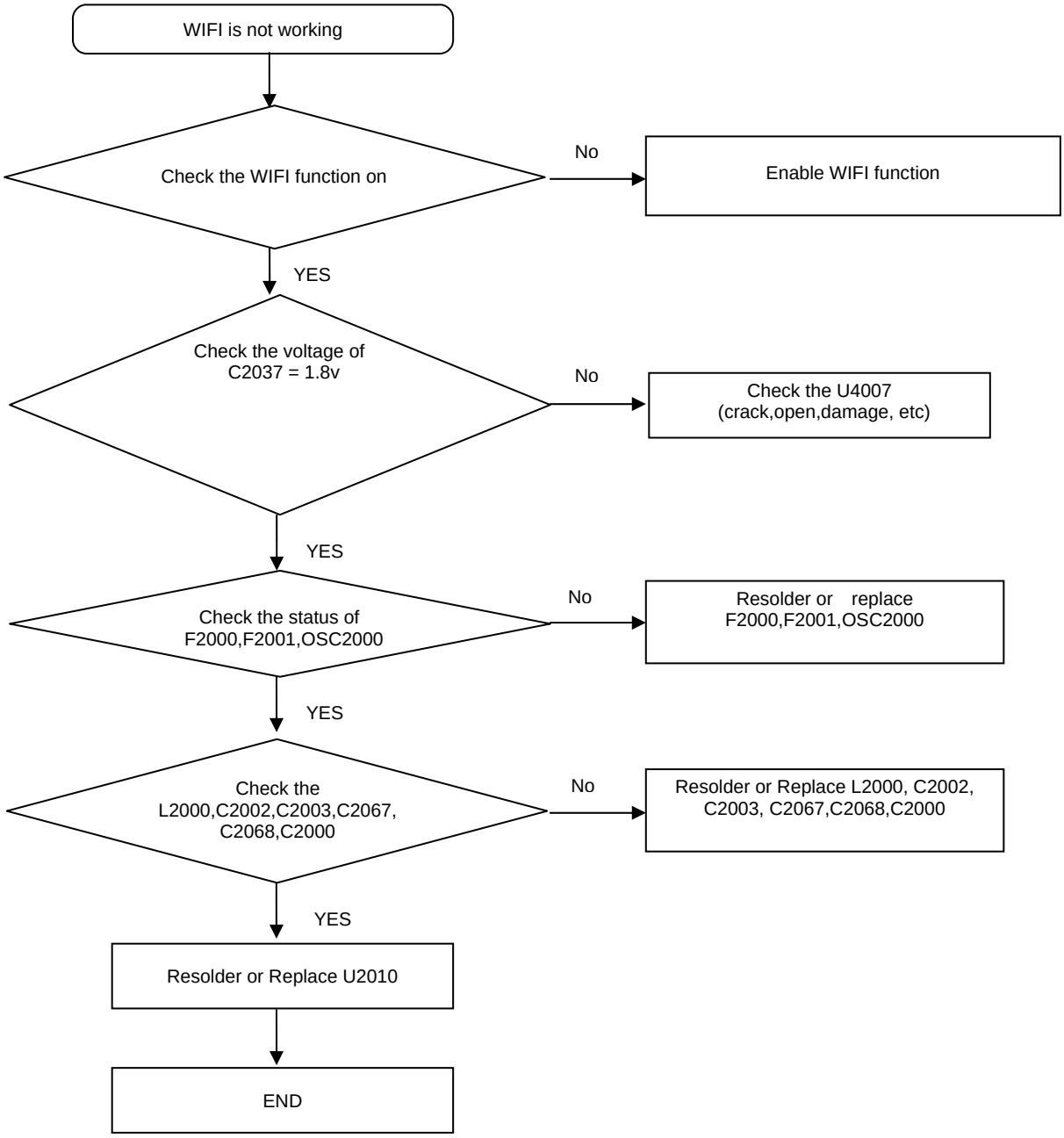
8-4-18. WIFI part



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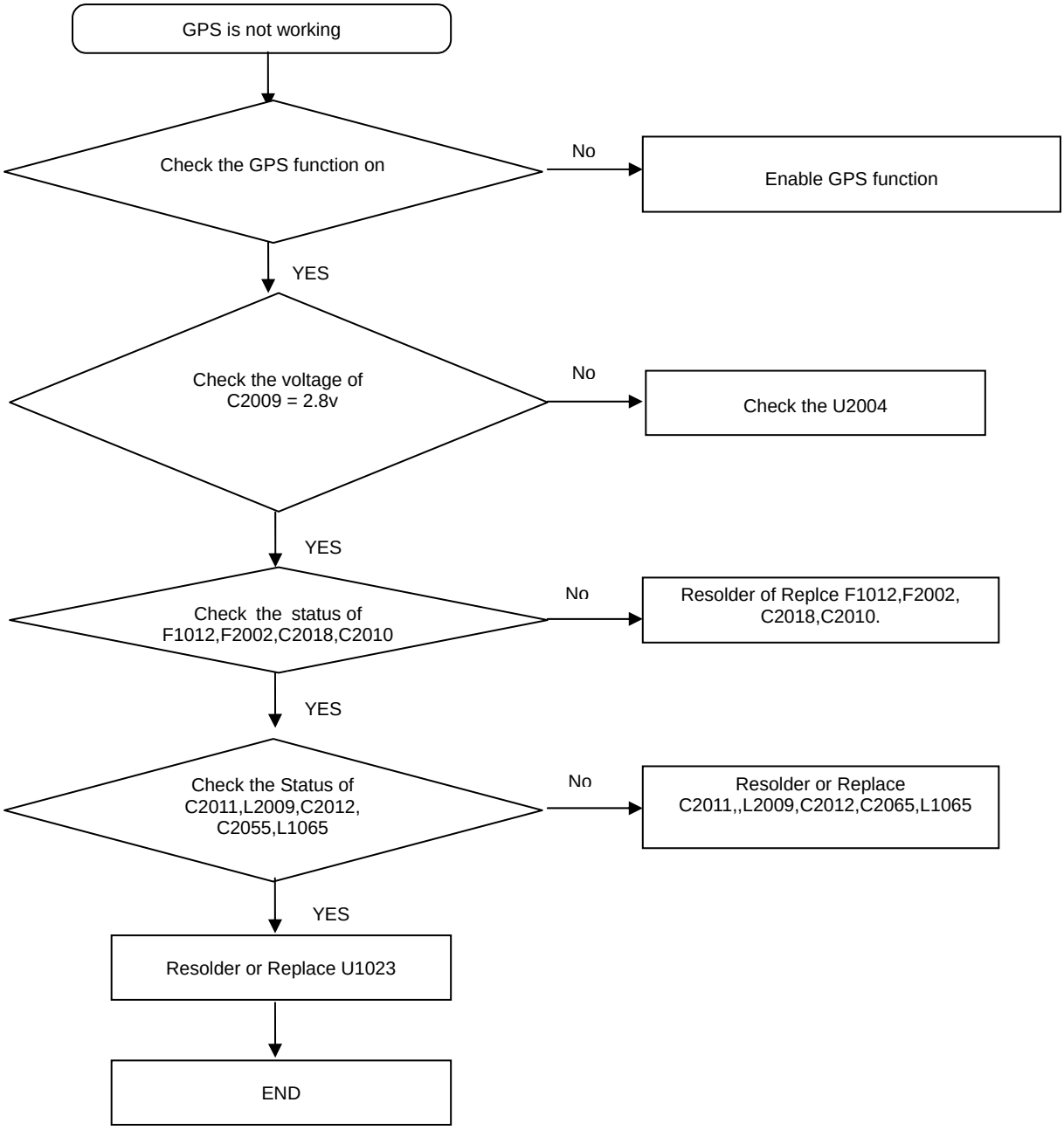
8-4-19. GPS Part



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9. Reference Abbreviate

Reference Abbreviate

- **AAC**: Advanced Audio Coding.
- **AVC** : Advanced Video Coding.
- **BER** : Bit Error Rate
- **BPSK**: Binary Phase Shift Keying
- **CA** : Conditional Access
- **CDM** : Code Division Multiplexing
- **C/I** : Carrier to Interference
- **DMB** : Digital Multimedia Broadcasting
- **EN** **:** European Standard
- **ES** **:** Elementary Stream
- **ETSI**: European Telecommunications Standards Institute
- **MPEG**: Moving Picture Experts Group
- **PN** : Pseudo-random Noise
- **PS** : Pilot Symbol
- **QPSK**: Quadrature Phase Shift Keying
- **RS** : Reed-Solomon
- **SI** : Service Information
- **TDM** : Time Division Multiplexing
- **TS** **:** Transport Stream

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